DSL-302G
ADSL Modem
User's Guide

Third Edition
July 2003

Wichtige Sicherheitshinweise

1. Bitte lesen Sie sich diese Hinweise sorgfältig durch.
2. Heben Sie diese Anleitung für den spätern Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Vervenden Sie keine Flüssig- oder Aerosolreiniger. Am besten dient ein angefeuchtetes Tuch zur Reinigung.
4. Um eine Beschädigung des Gerätes zu vermeiden sollten Sie nur Zubehörteile verwenden, die vom Hersteller zugelassen sind.
5. Das Gerät is vor Feuchtigkeit zu schützen.
6. Bei der Aufstellung des Gerätes ist auf sichern Stand zu achten. Ein Kippen oder Fallen könnte Verletzungen hervorrufen. Verwenden Sie nur sichere Standorte und beachten Sie die Aufstellhinweise des Herstellers.
7. Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
9. Die Netzanschlußsteckdose muß aus Gründen der elektrischen Sicherheit einen Schutzleiterkontakt haben.
10. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollete auch nichts auf der Leitung abgestellt werden.
11. Alle Hinweise und Warnungen die sich am Geräten befinden sind zu beachten.
12. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.
13. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. Elektrischen Schlag auslösen.
14. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von authorisiertem Servicepersonal geöffnet werden.
15. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:

a – Netzkabel oder Netzstecker sint beschädigt.
b – Flüssigkeit ist in das Gerät eingedrungen.
c – Das Gerät war Feuchtigkeit ausgesetzt.
d – Wenn das Gerät nicht der Bedienungsanleitung ensprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
e – Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
f – Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.

16. Bei Reparaturen dürfen nur Orginalersatzteile bzw. den Orginalteilen entsprechende Teile verwendet werden. Der Einsatz von ungeeigneten Ersatzteilen kann eine weitere Beschädigung hervorrufen.
17. Wenden Sie sich mit allen Fragen die Service und Repartur betreffen an Ihren Servicepartner. Somit stellen Sie die Betriebssicherheit des Gerätes sicher.
18. Zum Netzanschluß dieses Gerätes ist eine geprüfte Leitung zu verwenden, Für einen Nennstrom bis 6A und einem Gerätegewicht großer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm2 einzusetzen

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FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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About This User's Guide

This user's guide provides instructions on how to install the DSL-302G ADSL Modem and use it to connect a computer or Ethernet LAN to the Internet.

If you are using a computer with a functioning Ethernet port or an available USB port, the quickest and easiest way to set up the DSL-302G is to insert the Installation CD into the CD-ROM drive of your computer and follow the instructions provided in the Quick Installation Guide, or just click the "Install DSL-302G" link on the initial pop-up menu that appears shortly after inserting the CD and follow the instructions as they are presented.. If the menu fails to appear, explore the CD and find the file "autorun.exe" and double-click it to launch the installation software.

Before You Start

Please read and make sure you understand all the prerequisites for proper installation of your new Modem. Have all the necessary information and equipment on hand before beginning the installation.

Note

*If you will use the DSL-302G's USB port to connect to your computer, **do not** connect the USB cable to the modem until you have finished **all** of the steps to install the USB driver, **and** your computer has restarted.*

Installation Requirements

Information you will need from your ADSL service provider:

Username	This is the Username that is used to log on to your ADSL service provider's network. It is commonly in the form – **user@isp.com**.	**Record your info here.**
Password	This is the Password that is used, in conjunction with the Username above, to log on to your ADSL service provider's network.	
Connection Protocol	This is the method that your ADSL service provider uses to send and receive data between the Internet and your computer. Your DSL-302G supports **PPPoE LLC, PPPoE VC-Mux, PPPoA LLC,** and **PPPoA VC-Mux, Bridged Ethernet and IPoA**.	
Security Protocol	This is the method your ADSL service provider will use to verify your Username and Password when you log on to the remote network. Your DSL-302G supports the **PAP** and **CHAP** protocols.	
VPI	This is the Virtual Path Identifier (**VPI**). It is used in conjunction with the Virtual Channel Identifier (VCI) below, to identify the data path between your ADSL service provider's network and your computer.	
VCI	This is the Virtual Channel Identifier (**VCI**). It is used in conjunction with the VPI above to identify the data path between your ADSL service provider's network and your computer.	

Information you will need about your DSL-302G ADSL modem:

Modem Username	This is the Username you will be prompted to enter when you access the DSL-302G's configuration screens using a Web browser. The default Username is **admin**.	**Record your info here.**
Modem Password	This is the Password you will be prompted to enter when you access the DSL-302G's configuration screens using a Web browser. The default Password is **admin**.	
LAN IP address for the DSL-302G	This is the IP address you will enter into the **Address** field of your Web browser to access the DSL-302G's configuration screens using a Web Browser. The default for the Ethernet interface is **10.1.1.1** and for the USB interface it is **10.1.1.2.**	
LAN Subnet Mask for the DSL-302G	This is the subnet mask used by the DSL-302G, and will be used throughout your LAN. The default subnet mask is **255.0.0.0**.	

Information you will need about your LAN or computer:

Ethernet NIC	If your computer has an Ethernet NIC, you can connect the DSL-302G to this Ethernet port using an Ethernet cable. You can also use the Ethernet port on the DSL-302G to connect to other Ethernet devices, such as a Wireless Access Point.	**Record your info here.**
USB port	If your computer has an available USB port, you can connect the DSL-302G to this USB port using a USB cable.	
DHCP Client status	Your DSL-302G ADSL modem is configured, by default, to be a DHCP server. This means that it can assign an IP address, subnet mask, and a default gateway address to computers on your LAN. The range of IP addresses the DSL-302G will assign are from **10.1.1.3** to **10.1.1.34**. Your computer (or computers) needs to be configured to **Obtain an IP address automatically** (that is, they need to be configured as DHCP clients.)	

It is recommended that your collect and record this information here, or in some other secure place, in case you have to re-configure your ADSL connection in the future.

Once you have the above information, you are ready to setup and configure your DSL-302G ADSL modem.

Installing the USB Driver and Ethernet Diagnostic Utility

Congratulations on your purchase of a D-Link DSL-302G ADSL Modem!

This booklet will guide you through the initial installation steps necessary to be up and running on your ADSL service provider's network in minutes!

There are two options available to set up the modem:

- Use the DSL-302G Installation Utility located on the CD included with the modem. This Quick Installation Guide contains illustrated step-by-step instructions on how to use the Installation Utility.

- Use your browser software (such as Internet Explorer) to access the embedded management software on the DSL-302G modem. This method requires that your computer's Ethernet network interface be configured to "Obtain an IP Address automatically". See the DSL-302G User's Guide for instructions on how to change the IP settings on your computer so you can access the modem's management and configuration software from your Internet browser.

IMPORTANT

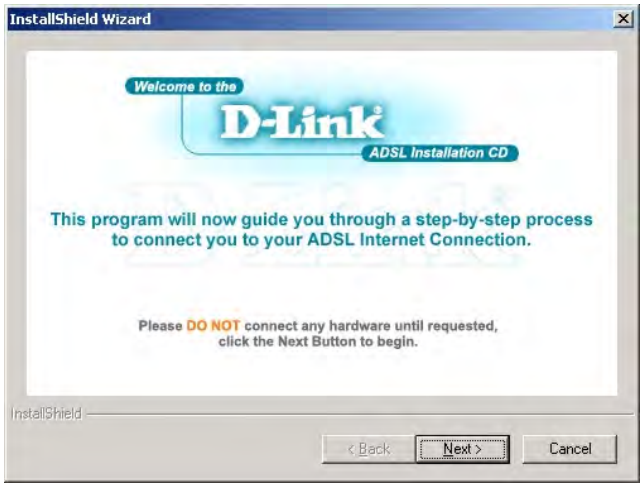
*If you will use the DSL-302G's USB port to connect to your computer, **do not** connect the USB cable to the modem until you have finished **all** of the steps to install the USB driver, **and** your computer has restarted.*

Using the DSL-302G Installation Utility

Follow these instructions to quickly setup the DSL-302G for use with a PPPoA or PPPoE connection (Your ADSL Service Provider can tell you which of these methods is required for your setup installation)

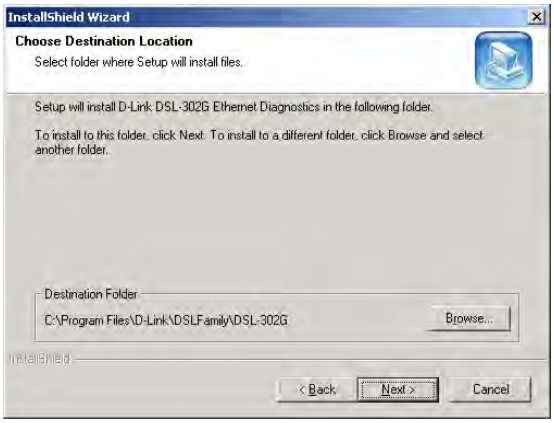
Insert the DSL-302G CD-ROM into the CD-ROM drive. Within a few seconds you should see the following dialog box:

Click the **Install DSL-302G** link to launch the installation software. If you do not see the auto-run dialog box pictured above, browse to the CD using 'My Computer' or 'Windows Explorer' and double-click the setup application file **dsl302g.exe**.

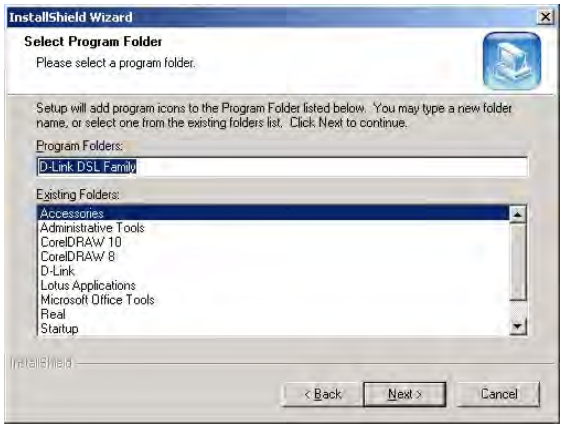

InstallShield Wizard
Welcome to the
D-Link
ADSL Installation CD
This program will now guide you through a step-by-step process to connect you to your ADSL Internet Connection.
Please DO NOT connect any hardware until requested, click the Next Button to begin.
InstallShield
< Back
Next >
Cancel

1. Click the **Next** button in the first InstallShield dialog box.

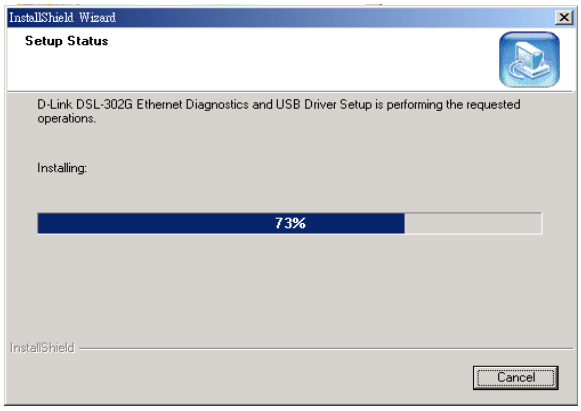
2. Enter your name and company information and click **Next**.


InstallShield Wizard
Choose Destination Location
Select folder where Setup will install files.
Setup will install D-Link DSL-302G Ethernet Diagnostics in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\D-Link\DSLFamily\DSL-302G
Browse...
InstallShield
< Back
Next >
Cancel

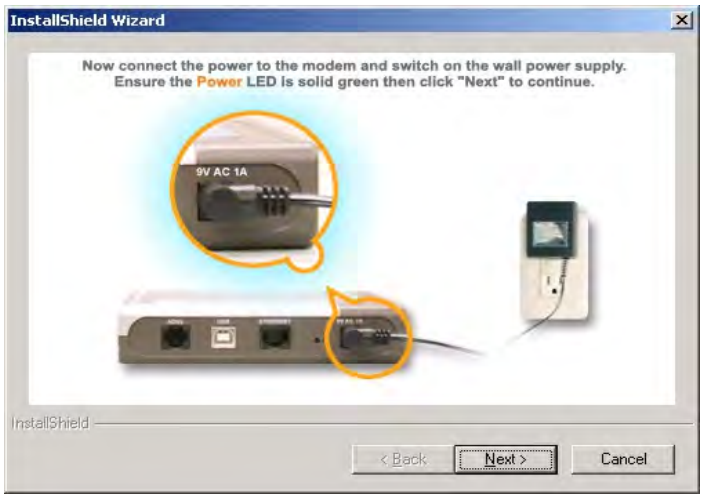
3. Click **Next** to use the folder displayed or **Browse**… to choose a different location.



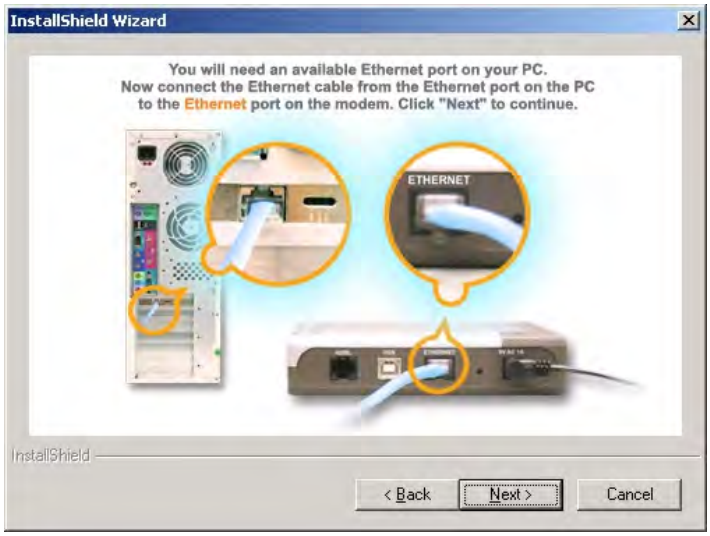
4. Click **Next** to use the folder listed or enter a different folder name.



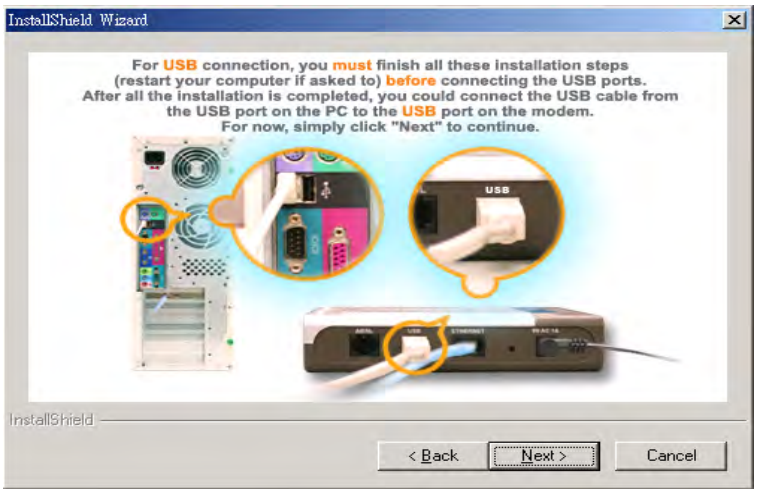
5. The Installation software is now installing the necessary drivers and diagnostic tools for your Operating System. This may take up to 2 minutes depending on your computer.


InstallShield Wizard
Now connect the power to the modem and switch on the wall power supply.
Ensure the Power LED is solid green then click "Next" to continue.
9V AC 1A
InstallShield
< Back
Next >
Cancel

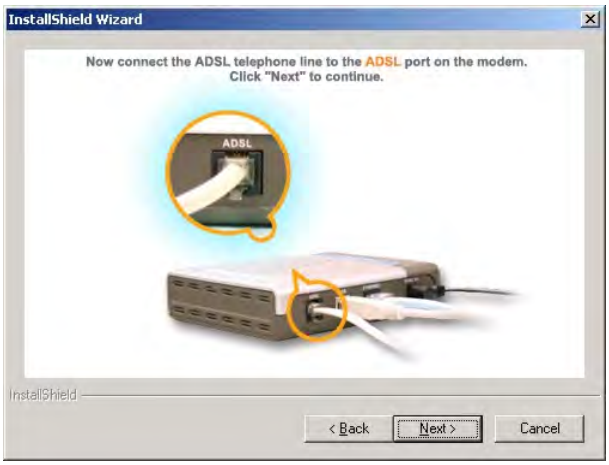
6. Connect the power cord as instructed. Click **Next**.


InstallShield Wizard
You will need an available Ethernet port on your PC.
Now connect the Ethernet cable from the Ethernet port on the PC
to the Ethernet port on the modem. Click "Next" to continue.
ETHERNET
InstallShield
< Back
Next >
Cancel

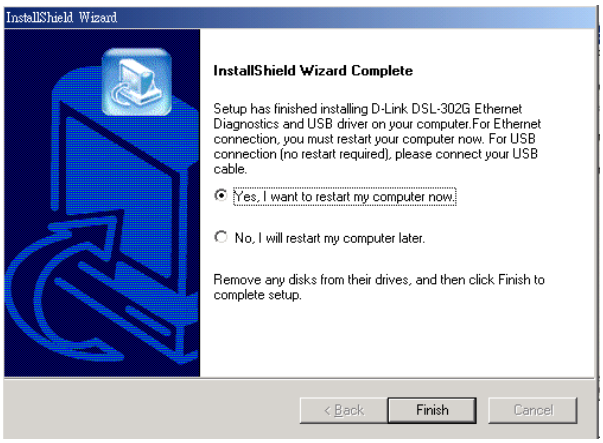
7. For Ethernet installation, please now connect the Ethernet cable. Then click **Next**.


InstallShield Wizard
For USB connection, you must finish all these installation steps
(restart your computer if asked to) before connecting the USB ports.
After all the installation is completed, you could connect the USB cable from
the USB port on the PC to the USB port on the modem.
For now, simply click "Next" to continue.
USB
InstallShield
< Back
Next >
Cancel

8. If you are using USB, **DO NOT** connect your modem until this installation is finished and your PC has restarted. For now, just click **Next** to continue.



9. Now, connect the ADSL cable. Click **Next**.


InstallShield Wizard
InstallShield Wizard Complete
Setup has finished installing D-Link DSL-302G Ethernet Diagnostics and USB driver on your computer. For Ethernet connection, you must restart your computer now. For USB connection (no restart required), please connect your USB cable.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

10. (1) If your Operating System is Windows 95/98/ME, you must restart your computer now by clicking on the **Finish** button.

    (2) If your Operating System is Windows 2000/XP, you must restart your computer if using an Ethernet connection. For a USB connection, simply connect the USB ports as shown below.

11. Upon restart or installation, you will find two new icons displayed on your computer's desktop, as shown below.

    (1) If you are using an Ethernet connection, please double-click on the **DSL-302G Ethernet diagnostics** icon and continue reading.

    (2) If you are using a USB connection, please double-click on the **DSL-302G USB Config** icon and skip to the next section, **Using the Web Browser**.

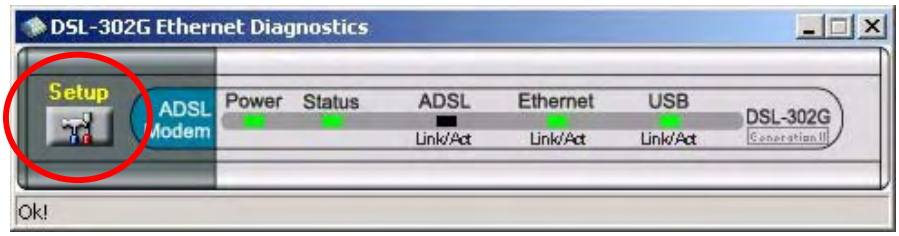
(FOR ETHERNET USER)

(FOR USB USER)

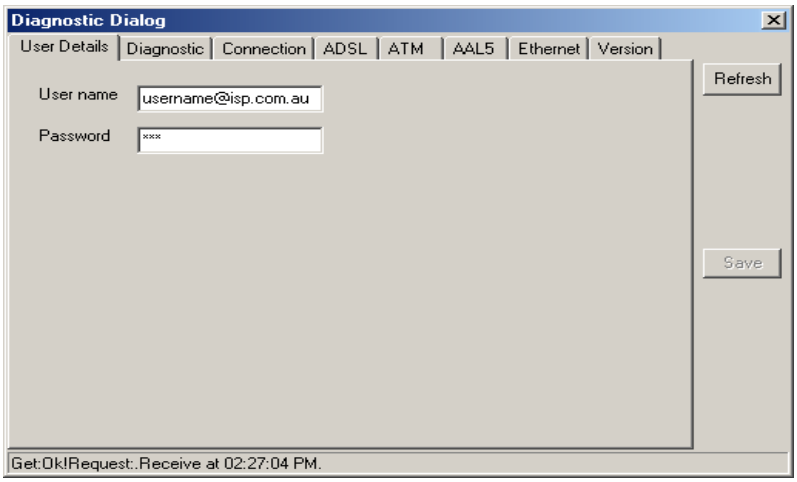
Note

The Ethernet Diagnostics software can be used to monitor and quickly diagnose the device, or change the user name and password used for your ADSL account**. The diagnostics program is only suitable for a PPP connection. If using an IPoA/Bridge connection, please use the Web Browser interface only. (See 'Using the Web Browser' below)** For further instructions, please read the DSL-302G User Guide.

12. The first time you click the DSL-302G Ethernet Diagnostics icon, you will be prompted for your username and password. Please enter these as shown in the above, using the username and password given to you by your ISP.



13. Click on the **Setup** button on the Ethernet Diagnostics display. A new menu will appear as shown below:



14. Under the **User Details** menu tab, please check your ADSL account username and password is correct as per step 12. If not, please re-enter these and then click '**Save'**. The device will reboot itself after saving.

15. You should now be successfully connected to your ADSL Service provider. Please launch your Web Browser and test by going to http://www.dlink.com.au

Using the Web Browser

To configure settings you must now access the configuration manager using your web browser. This is done by entering the IP address in the Address bar of the browser window as follows:

1. If you wish to access the configuration software through the Ethernet port**,** enter **http://10.1.1.1** (default Ethernet IP address of the DSL-302G).
2. If you wish to access the configuration software through the USB port, double-click on the icon below or enter **http://10.1.1.2** (default USB IP address of the DSL-302G).

3. Press the Enter key and the following prompt will appear:

Note

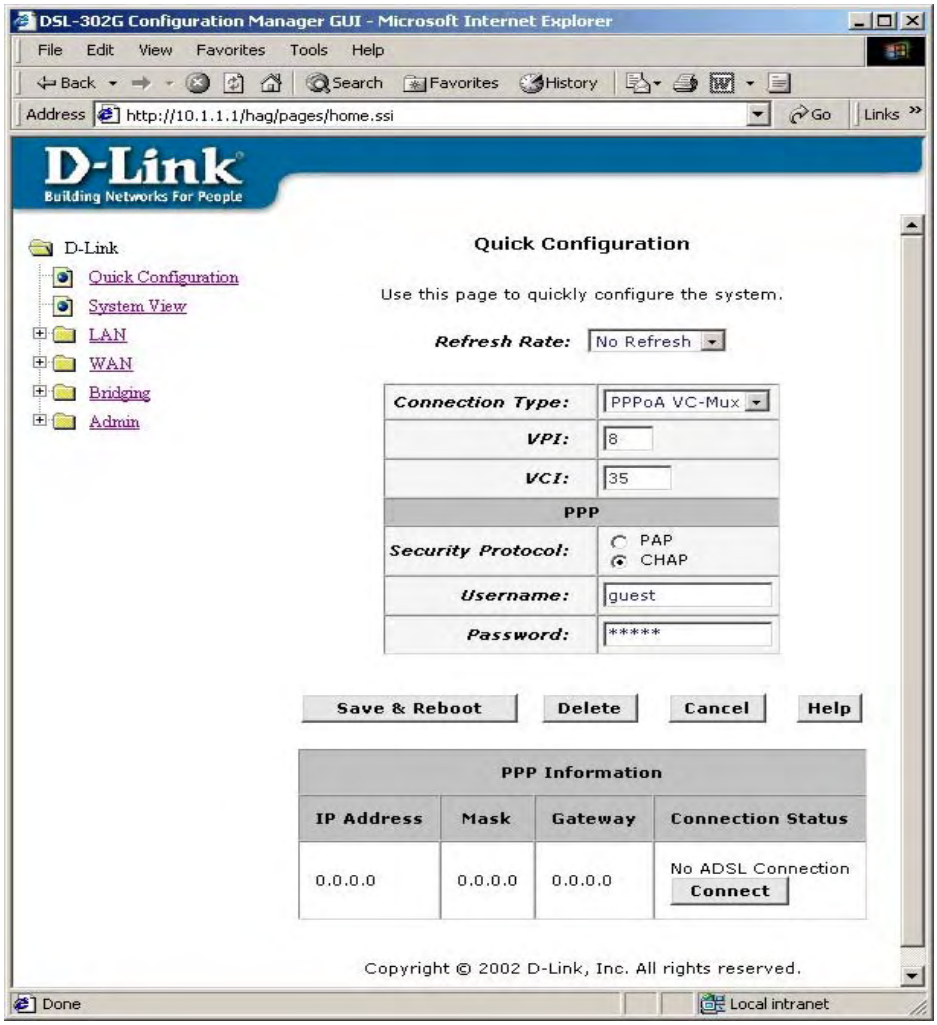
Be sure that the web browser on your computer is not configured to use a proxy server in it's Internet settings. In Windows Internet Explorer, you can check if a proxy server is enabled using the following procedure:

1. *In Windows, click on the START button, go to Settings and choose Control Panel.*
2. *In the Control Panel window, double-click on the Internet Options icon.*
3. *Select the Connections tab and click on the LAN Settings button.*
4. *Verify that the "Use proxy server" option is NOT checked. If it is checked, click in the checkbox to deselect the option and click OK.*

4. Enter the User Name **admin** and Password **admin** and click the **OK** button. The default page of the web configuration manager appears as below in your web browser:

Note

Do not confuse the user name and password used to access this web configuration manager with the ADSL account user name and password needed for PPP connection to access the ADSL service provider's network.



5. In the **Quick Configuration** menu, enter the PPP account information (Username and Password) given to you by your ADSL service provider. Most users will be able to connect to the Internet using the default connection settings (*Connection Type:* **PPPoA VC-Mux**, *VPI:***8**, *VCI:***35**, *Security Protocol:* **CHAP**). Do not change any of these settings unless you have been instructed to do so and you have the correct settings as supplied by your ADSL service provider. The available connection types are: **PPPoA VC-Mux**, **PPPoA LLC**, **PPPoE VC-Mux**, **PPPoE LLC**.

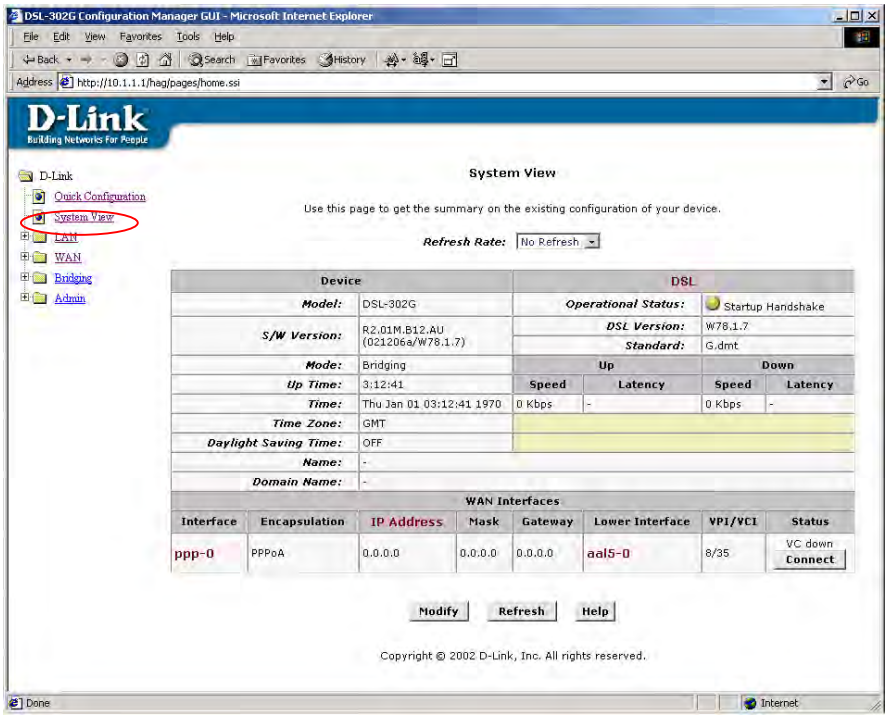
6. Once you have completed the settings, click on the **Save & Reboot** button to save the settings and reboot the modem.

7. The DSL-302G will negotiate the ADSL connection automatically upon rebooting. This will normally take about a minute. When the ADSL connection has been successfully established, the green **ADSL Link** LED indicator will be lit steadily. If the ADSL Link indicator is not lit after a minute or so, double check the cable connections and make sure the correct information has been entered in the Quick

Configuration menu, including the Username and Password (case-sensitive) used for your ADSL account.

8. You should now be successfully connected to your ADSL service provider. Please launch your Web Browser and test by going to http://www.dlink.com.au

9. You can also use the **System View** display to check the full status of the DSL-302G.

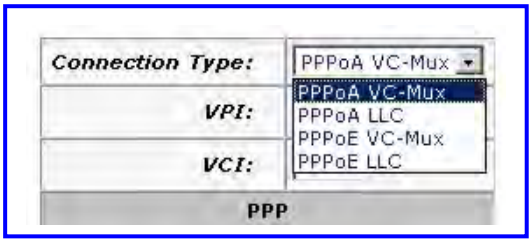


Web-based Manager – First Time Log On

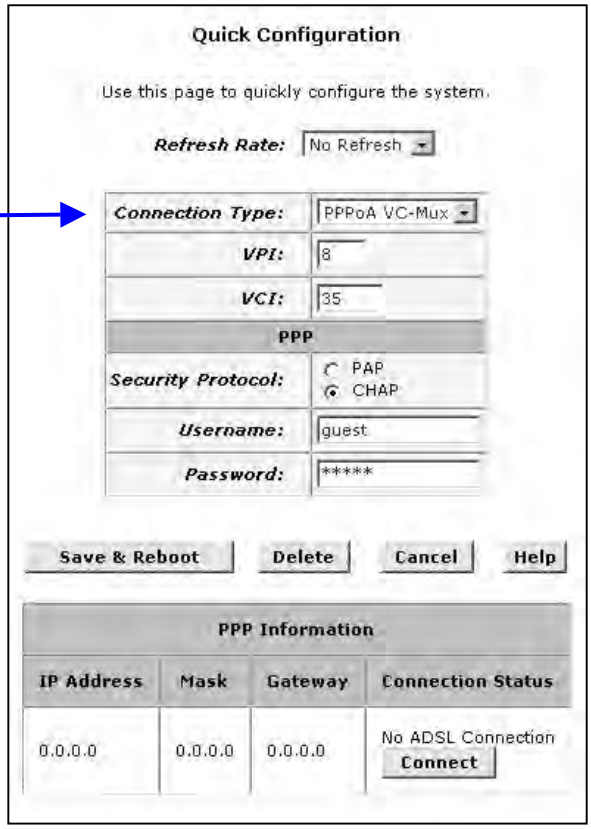
Configure the Internet Connection (ADSL Service Connection)

All the settings necessary to establish the connection to your service provider's network and ultimately to the Internet can be configured in the Quick Configuration menu. Make sure you know what connection type is used for your ADSL service. Follow the steps below to establish the Internet connection:

1. Choose the Connection Type. Select **PPPoA LLC, PPPoA VC-Mux, PPPoE VC-Mux,** or **PPPoE LLC**, from the pull-down menu.



2. Enter the **VPI** and **VCI** values provided by your ADSL service provider. Most users will use the default values VPI: 8 and VCI: 35.
3. Select the type of **Security Protocol** used by your ADSL service provider. This is the method used to verify your Username and Password.
4. Type in the **Username** or account number used to access the service provider's network.
5. Type in the **Password** for your account used to access the service provider's network.



Quick Configuration

Save & Reboot

When you have defined the Quick Configuration settings, click the **Save & Reboot** button to save the settings in temporary and reboot the system. The Modem will negotiate the ADSL connection automatically upon rebooting. This will normally take a few seconds. When the ADSL connection has been successfully established, the **ADSL Link** LED indicator will light a steady green colour. If the **ADSL Link** indicator does not light after a minute or so access the web configuration manager and double check the settings.

1

Introduction

This section provides a brief description of the Modem, its associated technologies and a list of Modem features.

What is ADSL?

Asymmetric Digital Subscriber Line (ADSL) is broadband access technology that provides high-speed digital data transmission and interactive multimedia applications for business and residential customers over ordinary telephone lines.

ADSL greatly increases the signal carrying capacity of copper telephone lines without interfering with regular telephone services. For the ADSL user, this means faster downloads and more reliable connectivity. ADSL devices enable high-speed Internet access without any loss of quality or disruption of telephone services.

ADSL provides a dedicated service over a single telephone line operating at speeds of up to 8 Mbps downstream and up to 640 Kbps upstream. A secure point-to-point connection is established between the user and the central office of the service provider.

D-Link ADSL devices incorporate the recommendations of the ADSL Forum regarding framing, data format, and upper layer protocols.

Modem Description and Operation

The DSL-302G ADSL Modem is designed to provide a simple, cost-effective and secure ADSL Internet connection for your small to medium-sized private network. The ADSL connection technology enables many interactive multi-media applications such as video conferencing and collaborative computing.

The Modem is easy to install and use. The DSL-302G connects to an Ethernet LAN via a standard Ethernet interface, or a single computer via a USB connection. The ADSL connection is made using ordinary twisted-pair telephone line with standard RJ-11 connectors.

Low Pass Filters

Since ADSL and telephone services share the same copper wiring to carry their respective signals, a filtering mechanism may be necessary to avoid mutual interference. A low pass filter device can be installed for each telephone that shares the line with the ADSL line. These filters are easy to install passive devices that connect to the ADSL device and/or telephone using standard telephone cable. Ask your service provider for more information about the use of low pass filters with your installation. Appendix D provides illustrated examples of how to install two common styles of low pass filters.

Web-based Modem Configuration

The DSL-302G can be configured by using an HTML-based web interface for setup and management. The web configuration manager may be accessed using any operating system capable of running web browser software. Computer using the USB port to connect to the Modem must install additional software. The additional software will run on Windows operating systems.

Web Browser

Any common web browser can be used to configure the Modem using the web configuration management software. The program is designed to work best with more recently released browsers such as Microsoft Internet Explorer® version 6.0, Netscape Navigator® version 5.2, or later versions. The web browser must have JavaScript enabled. JavaScript is enabled by default on many browsers. Make sure JavaScript has not been disabled by other software (such as virus protection or web user security packages) that may be running on your computer.

Ethernet Port (NIC Adapter)

Any computer that uses the Modem must be able to connect to it through either the USB or Ethernet port on the Modem. The Ethernet connection therefore requires that your computer be equipped with an Ethernet port as

well. Most notebook computers are now sold with an Ethernet port already installed. Likewise, most fully assembled desktop computers come with an Ethernet NIC adapter as standard equipment. If your computer does not have an Ethernet port, you must install an Ethernet NIC adapter before you can use the Modem, or use the USB port if available. If you must install an Ethernet NIC adapter, follow the installation instructions that come with the Ethernet NIC adapter.

USB Port

The Modem's USB Port can be used for Internet access and for Ethernet LAN functions. To use the USB port a software driver must be installed on the system using it. To install the USB driver insert the Installation CD into the CD-ROM drive of the computer that will use the USB connection and click the "Install DSL-302G" link in the window that pops up. The DSL-302G supports USB connection for computers running Windows 98SE, 2000, Me and XP.

Additional Software

It may be necessary to install software on your computer that enables the computer to access the Internet (through computers operated by your ISP or service provider). Additional software must be installed if you are using what is called a "bridged" connection. For a bridged connection, the information needed to make and maintain the Internet connection is stored on your computer, not in the Modem. This type of connection is similar to the arrangement used for analog dial-up modems, but the connection speed is much faster. Various terms are to describe a bridged ADSL connection including the term "RFC 1483 Bridge" which is used in this guide.

If your ADSL service is delivered through a PPP (Point to Point Protocol) connection, the information needed to establish and maintain the Internet connection is stored in the Modem. In this case, it is not necessary to install software on your computer.

Account Information (User Name and Password)

Most users will need to supply a user name and password used to access the service provider's network (and ultimately, the Internet). This information is stored either in the Modem's memory or on your computer depending on the type of ADSL connection you have.

ACCOUNT INFORMATION (PPP Connections Only)
User Name:
Password:

Additional PVC Settings

If you are using multiple virtual connections it will be necessary to provide additional VPI and VCI values for the device (the combination of VPI and VCI values are called a PVC). These numbers define a unique route used on the ATM backbone of the WAN. Chapter 5 contains instruction on how to set up additional PVCs for accounts using more than one virtual connection.

About Bridged Ethernet Connections (RFC 1483)

Using this method, the DSL-302G acts as a transparent bridge, and is invisible to other devices on both the WAN (wide area network) and LAN (local area network) side of the bridge. It is "invisible" in the sense that it does not have an IP address associated with it. Every device connected to the WAN must have an IP address to be "seen" on the IP network. Devices that connect to the Internet have a "global" IP address that is unique and is used to identify the device so that it can send and receive data.

All connections to the Internet require a global IP address. It is therefore necessary to provide some means of acquiring global IP settings for your account. For bridged connections, the global IP settings must reside in a TCP/IP enabled device on the LAN side of the bridge, such as a computer, a server or a firewall device. The IP address can be assigned in a number of ways. Your network service provider will give you instructions about any additional connection software or NIC configuration that may be required.

Modem Features

The DSL-302G ADSL Ethernet Modem utilizes the latest ADSL enhancements to provide a reliable Internet portal suitable for most small to medium sized offices. DSL-302G advantages include:

- Network Address Translation (NAT) allows simultaneous connection of two computers via USB and Ethernet ports
- Data rates up to 8 Mbps for downstream and 640 Kbps for upstream
- Friendly web-based graphical user interface for configuration and management
- Supports up to eight simultaneous virtual connections for a single ADSL account
- Supports T1.413 issue 2, G.dmt and G.lite standards
- Auto-handshake and rate adaptation for different ADSL flavors
- Widest range of DSLAM interoperability
- Supports bridged Ethernet over ATM (RFC 2684)
- Built-in MIBs for SNMP management
- Upgradeable firmware through TFTP

Packing List

Open the shipping carton and carefully remove all items. In addition to this User's Guide, ascertain that you have the following:

One DSL-302G ADSL Ethernet Modem

One CD-ROM with this User's Guide, USB Device Driver and Ethernet Diagnostic Utility

One twisted-pair telephone cable used for ADSL connection

One straight-through Ethernet cable

One AC power adapter

One USB Cable

Front Panel & LED Indicators

Place the Modem in a location where the LED indicators can be easily viewed.

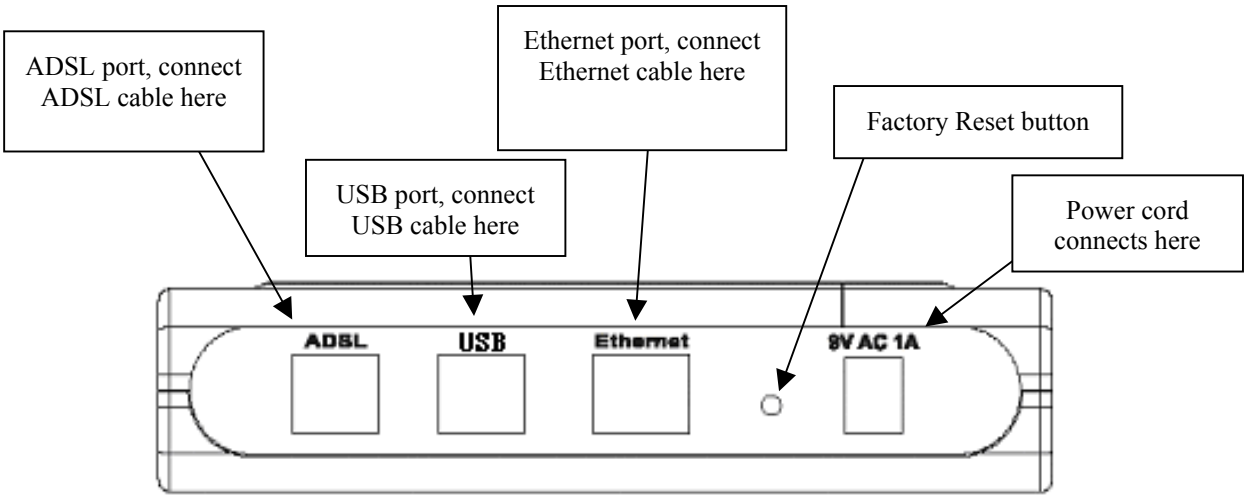
Front Panel Display with LED Indicators

The LED Indicators read as follows:

Power	Steady green light indicates the unit is powered on.
Status	Blinking green indicates normal operation.
ADSL: Link/Act	Steady green light indicates a valid ADSL connection. This will light after the ADSL negotiation process has been settled. Blinking green light indicates an active WAN session.
Ethernet: Link/ Act	Steady green light indicates a valid Ethernet connection. Blinking green indicates an active Ethernet session.
USB: Link/ Act	Steady green light indicates a valid USB connection. Blinking green indicates an active USB session.

Rear Panel

All cable connections to the Modem are made at the rear panel. The factory-reset button is located here as well.



Rear Panel Cable and Power Connections

2

Connecting the Modem

In this chapter you will learn about the various physical connections you will need to make in order to use the Modem.

When selecting the location for the Modem, allow ample room to access the connections on the rear panel. Allow some space above the Modem for ventilation to avoid problems with overheating. For convenience, try to place the Modem near your computer so you can monitor the LED indicators.

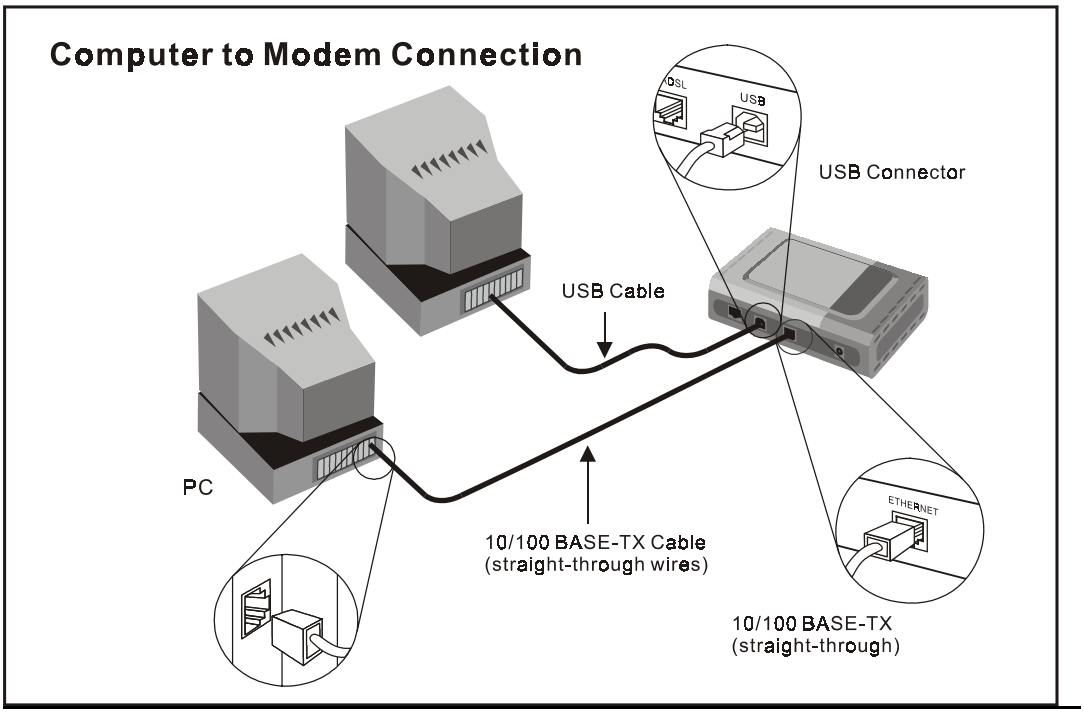
Note

The LED indicators can also be viewed on the desktop of your computer if you install the Ethernet Diagnostic Utility software shipped with the device.

Connecting the ADSL Line

Use the twisted-pair ADSL cable (standard telephone cable) included with the Modem to connect it to your telephone line. Simply plug one end of the cable into the ADSL port (RJ-11 receptacle) on the rear panel of the Modem and insert the other end into the wall jack.

Computer to Modem Connection



PC to Modem Connection

You can connect the Modem directly to a 10/100BASE-TX Ethernet adapter card (NIC) installed on a PC using the Ethernet cable provided as shown in this diagram.

Connecting the Ethernet LAN to Modem

The Modem may be connected to any 10/100BASE-TX Ethernet LAN. Any connection to an Ethernet concentrating device such as a switch or hub must operate at a speed of 10/100 Mbps only. When connecting the Modem to any Ethernet device that is capable of operating at speeds higher than 10Mbps, be sure that the device has auto-negotiation (NWay) enabled for the connecting port.

Use standard twisted-pair cable with RJ-45 connectors. The RJ-45 port on the Modem is a crossed port (MDI-X). Follow standard Ethernet guidelines when deciding what type of cable to use to make this connection. When connecting the Modem directly to a PC or server use a normal straight-through cable. You should use a crossed cable when connecting the Modem to a normal (MDI-X) port on a switch or hub. Use a normal straight-through cable when connecting it to an uplink (MDI-II) port on a hub or switch. The Ethernet Link LED indicator will indicate a valid connection.

The rules governing Ethernet cable lengths apply to the LAN to Modem connection. Be sure that the cable connecting the LAN to the Modem does not exceed 100 meters.

Powering up the Modem

To power on the device:

1. Insert the AC Power Adapter cord into the power receptacle located on the back of the Modem and plug the adapter into a nearby power source.
2. You should see the Power LED indicator light up and remain lit.

WARNING

Using a power supply with a different voltage rating than the one included with the DSL-302G will cause damage and void the warranty for this product.

USB Connection

The USB port on the DSL-302G can be connected to a single computer. A software driver must first be installed on the computer to use the USB interface. The driver is installed using the automatic installation software found on the Installation CD. Installing this software will create a new network connection with an IP address of 10.1.1.2 on the computer. This is the IP address used to access the management software through the USB connection. See Chapter 5 for instructions on installing the the USB driver on a computer running a Windows operating system.

3

Detailed Set Up Instructions

The easiest way to set up the DSL-302G ADSL Modem is to simply insert the Installation CD into the CD-ROM drive of a computer you intend to use with the device, launch the automatic installation software and follow the instructions as they are presented.

You will need some information from your ISP or ADSL service provider about your account, and some information about your computer or LAN. For your convenience, a table listing the required information is presented below. It is recommended that you record this information in the table provided, or some other secure place, in case

Installation Overview

The steps listed here are a summary of the procedure used to access the management software and configure the Modem without using the automatic installation software.

1. Install the USB driver and Ethernet diagnostic utility on your computer.
2. Restart your computer.
3. Connect the modem to your computer and the ADSL telephone line and power it on as described in the previous section.
4. If you are using the USB port to connect the modem to your computer, the USB driver you installed above will now find the modem and establish the connection. Once the connection is made, the USB connection will appear in the Windows Control Panel as an Ethernet NIC.
5. If you are using the Ethernet port to connect the modem to your computer, the connection will now be active.
6. Change the IP settings of your computer so you can access the web-based configuration software through the Ethernet port or the USB port. The factory default LAN IP settings for the Modem are:

   Ethernet port: IP address = **10.1.1.1** subnet mask = **255.0.0.0**

   USB port: IP address = **10.1.1.2** subnet mask = **255.0.0.0**
7. Configure your modem using information given to you by your service provider. The modem uses this information to establish the ADSL connection to the WAN.
8. Save the settings and restart your modem.

Before You Start

Please read and make sure you understand all the prerequisites for proper installation of your new Modem. Have all the necessary information and equipment on hand before beginning the installation.

Note

*If you will use the DSL-302G's USB port to connect to your computer, **do not** connect the USB cable to the modem until you have finished **all** of the steps to install the USB driver, **and** your computer has restarted.*

Installation Requirements

Information you will need from your ADSL service provider:

Username	This is the Username that is used to log on to your ADSL service provider's network. It is commonly in the form – **user@isp.com**.	**Record your info here.**
Password	This is the Password that is used, in conjunction with the Username above, to log on to your ADSL service provider's network.	
Connection Protocol	This is the method that your ADSL service provider uses to send and receive data between the Internet and your computer. Your DSL-302G supports **PPPoE LLC, PPPoE VC-Mux, PPPoA LLC,** and **PPPoA VC-Mux, Bridged Ethernet and IPoA**.	
Security Protocol	This is the method your ADSL service provider will use to verify your Username and Password when you log on to the remote network. Your DSL-302G supports the **PAP** and **CHAP** protocols.	
VPI	This is the Virtual Path Identifier (**VPI**). It is used in conjunction with the Virtual Channel Identifier (VCI) below, to identify the data path between your ADSL service provider's network and your computer.	
VCI	This is the Virtual Channel Identifier (**VCI**). It is used in conjunction with the VPI above to identify the data path between your ADSL service provider's network and your computer.	

Information you will need about your DSL-302G ADSL modem:

Modem Username	This is the Username you will be prompted to enter when you access the DSL-302G's configuration screens using a Web browser. The default Username is **admin**.	**Record your info here.**
Modem Password	This is the Password you will be prompted to enter when you access the DSL-302G's configuration screens using a Web browser. The default Password is **admin**.	
LAN IP address for the DSL-302G	This is the IP address you will enter into the **Address** field of your Web browser to access the DSL-302G's configuration screens using a Web Browser. The default for the Ethernet interface is **10.1.1.1** and for the USB interface it is **10.1.1.2.**	
LAN Subnet Mask for the DSL-302G	This is the subnet mask used by the DSL-302G, and will be used throughout your LAN. The default subnet mask is **255.0.0.0**.	

Information you will need about your LAN or computer:

Ethernet NIC	If your computer has an Ethernet NIC, you can connect the DSL-302G to this Ethernet port using an Ethernet cable. You can also use the Ethernet port on the DSL-302G to connect to other Ethernet devices, such as a Wireless Access Point.	**Record your info here.**
USB port	If your computer has an available USB port, you can connect the DSL-302G to this USB port using a USB cable.	
DHCP Client status	Your DSL-302G ADSL modem is configured, by default, to be a DHCP server. This means that it can assign an IP address, subnet mask, and a default gateway address to computers on your LAN. The range of IP addresses the DSL-302G will assign are from **10.1.1.3** to **10.1.1.34**. Your computer (or computers) needs to be configured to **Obtain an IP address automatically** (that is, they need to be configured as DHCP clients.)	

It is recommended that your collect and record this information here, or in some other secure place, in case you have to re-configure your ADSL connection in the future.

Once you have the above information, you are ready to setup and configure your DSL-302G ADSL modem.

Configuring IP Settings on Your Computer

In order to configure your system to receive IP settings from the Modem it must first have the TCP/IP protocol installed. If you have an Ethernet port on your computer, it probably already has TCP/IP protocol installed. If you are using Windows XP the TCP/IP is enabled by default for standard installations. Below is an illustrated example of how to configure a Windows XP system to automatically obtain IP settings from the Modem. Following this example is a step-by-step description of the procedures used on the other Windows operating systems to first check if the TCP/IP protocol has been installed, if it is not instruction are provided for installing it. Once the protocol has been installed you can configure the system to receive IP settings from the Modem.

For computers running non-Windows operating systems, follow the instructions for your OS that configure the system to receive an IP address from the Modem, that is, configure the system to be a DHCP client.

Note

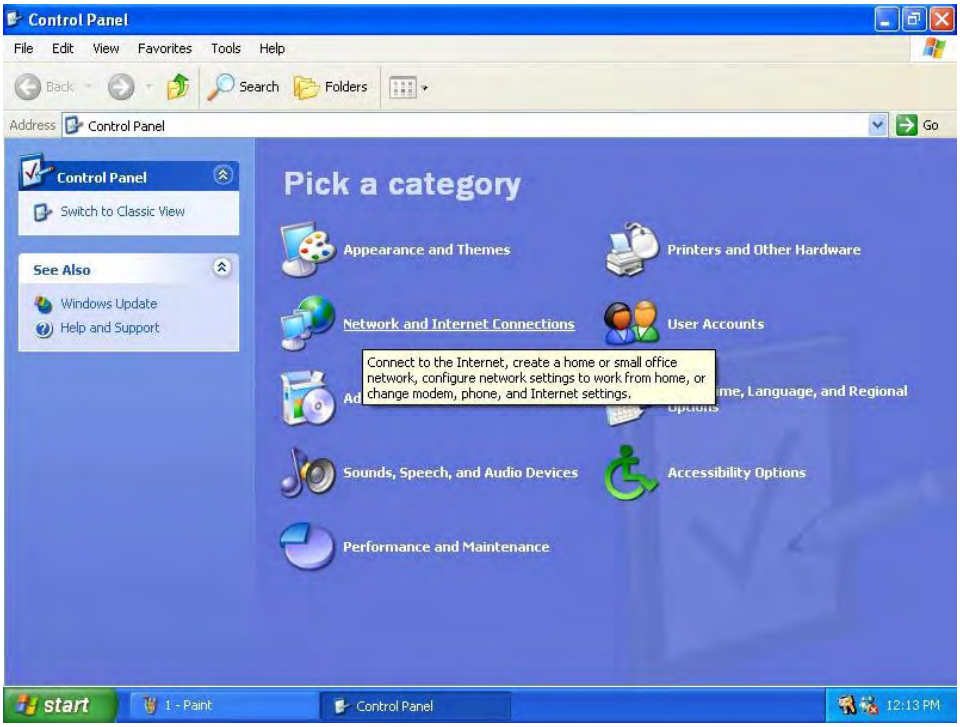
If you are using this Modem to provide Internet access for more than one computer, you can use these instructions later to change the IP settings for the other computers. However you cannot use the same IP address since every computer must have its own IP address that is unique on the local network.

Configure Windows XP for DHCP

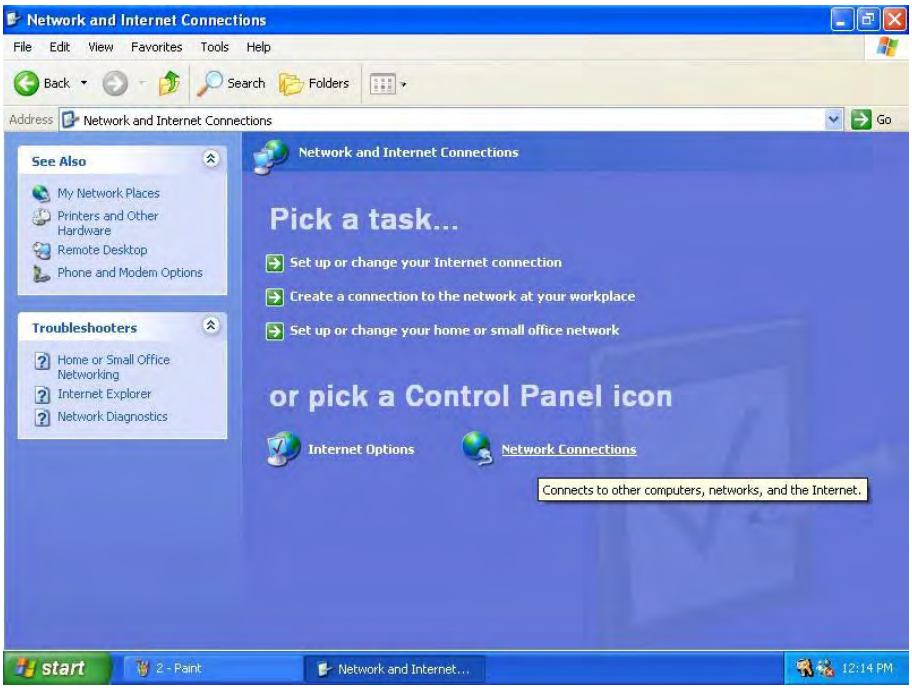
Use the following steps to configure a computer running Windows XP to be a DHCP client.

1. From the **Start** menu on your desktop, go to click on **Control Panel**.

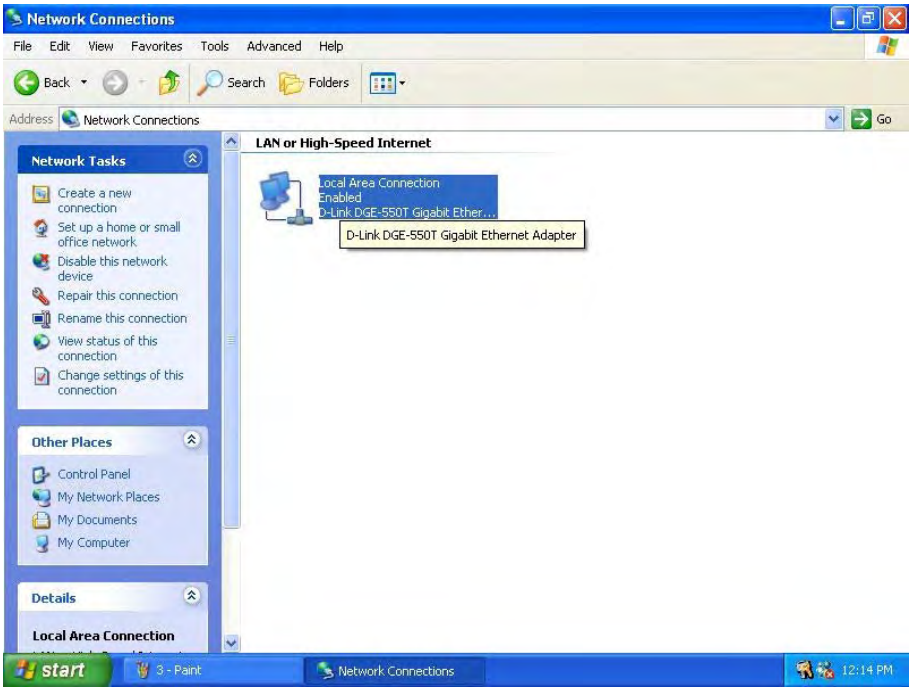
2. In the Control Panel folder, click on **Network and Internet Connections**.



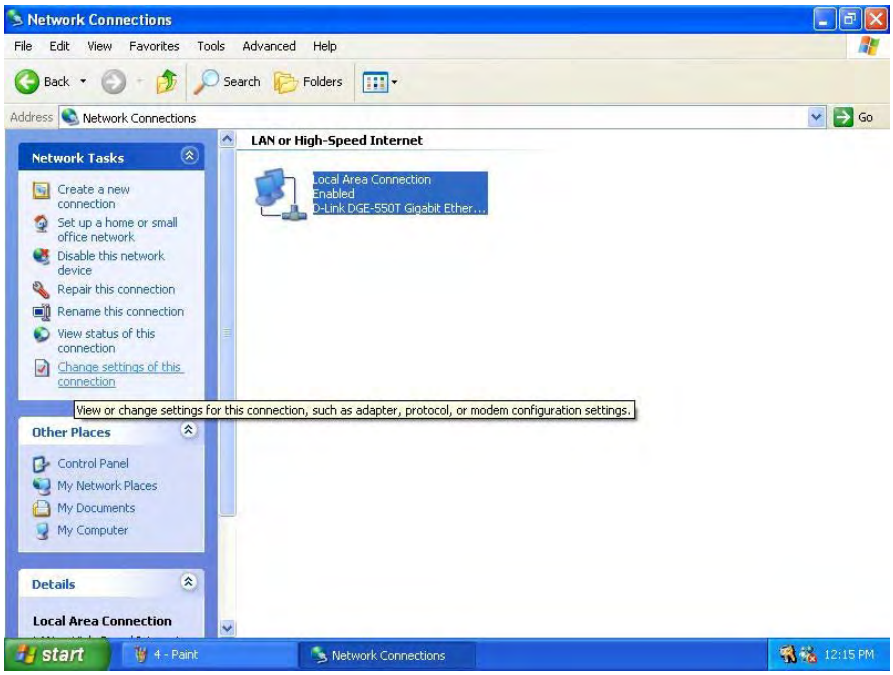
3. In the Network and Internet Connections folder, click on **Network Connections**.



4. In the Network Connections folder, highlight the **Local Area Connection** icon by clicking on it once. A new option is revealed under Network Tabs in the left side panel.

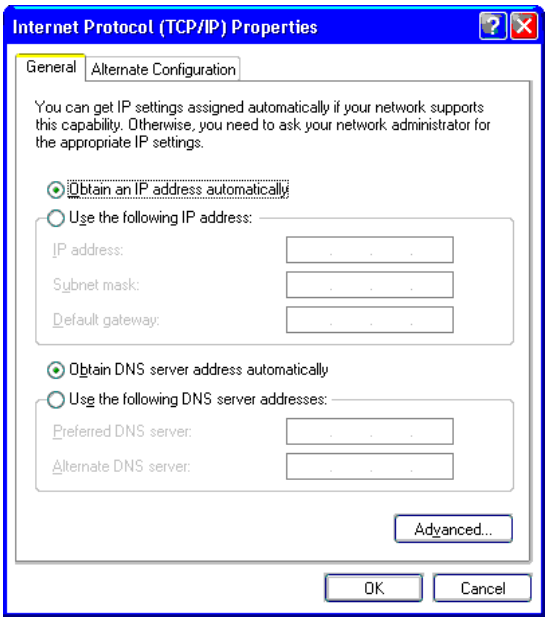


5. Click on **Change settings of the connection** under Network Tabs.



6. In the ***General*** Tab of the **Local Area Connection Properties** menu, highlight **Internet Protocol (TCP/IP)** under "This connection uses the following items:" by clicking on it once. Click on the **Properties** button.

7. Select "Obtain an IP address automatically" by clicking once in the circle. Click the **OK** button.


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Your computer is now ready to use the Modem's DHCP server.

Windows 2000

First, check for the IP protocol and, if necessary, install it:

1. In the Windows task bar, click the Start button, point to **Settings**, and then click **Control Panel**.
2. Double-click the Network and Dial-up Connections icon.
3. In the Network and Dial-up Connections window, right-click the Local Area Connection icon, and then select **Properties**.
4. The Local Area Connection Properties dialog box displays with a list of currently installed network components. If the list includes Internet Protocol (TCP/IP), then the protocol has already been enabled, skip ahead to *Configure Windows 2000 for DHCP*.
5. If Internet Protocol (TCP/IP) does not display as an installed component, click **Install**.
6. In the Select Network Component Type dialog box, select **Protocol**, and then click **Add**.
7. Select **Internet Protocol (TCP/IP)** in the Network Protocols list, and then click **OK**.
8. You may be prompted to install files from your Windows 2000 installation CD or other media. Follow the instructions to install the files.
9. If prompted, click **OK** to restart your computer with the new settings.

Configure Windows 2000 for DHCP

1. In the Control Panel, double-click the Network and Dial-up Connections icon.
2. In Network and Dial-up Connections window, right-click the Local Area Connection icon, and then select **Properties**.
3. In the Local Area Connection Properties dialog box, select **Internet Protocol (TCP/IP)**, and then click **Properties**.
4. In the Internet Protocol (TCP/IP) Properties dialog box, click the button labeled **Obtain an IP address automatically**.
5. Double-click **OK** to confirm and save your changes, and then close the Control Panel.

Your computer is now ready to use the Modem's DHCP server.

Windows ME

First, check for the IP protocol and, if necessary, install it:

1. In the Windows task bar, click the Start button, point to **Settings**, and then click **Control Panel**.
2. Double-click the Network and Dial-up Connections icon.
3. In the Network and Dial-up Connections window, right-click the Network icon, and then select **Properties**.
4. The Network Properties dialog box displays with a list of currently installed network components. If the list includes Internet Protocol (TCP/IP), then the protocol has already been enabled. Skip ahead to *Configure Windows ME for DHCP*.
5. If Internet Protocol (TCP/IP) does not display as an installed component, click **Add**.
6. In the Select Network Component Type dialog box, select **Protocol**, and then click **Add**.
7. Select **Microsoft** in the Manufacturers box.
8. Select **Internet Protocol (TCP/IP)** in the Network Protocols list, and then click **OK**.
9. You may be prompted to install files from your Windows Me installation CD or other media. Follow the instructions to install the files.
10. If prompted, click **OK** to restart your computer with the new settings.

Configure Windows ME for DHCP

1. In the Control Panel, double-click the Network and Dial-up Connections icon.
2. In Network and Dial-up Connections window, right-click the Network icon, and then select **Properties**.
3. In the Network Properties dialog box, select **TCP/IP**, and then click **Properties**.
4. In the TCP/IP Settings dialog box, click the **Obtain and IP address automatically** option.
5. Double-click **OK** twice to confirm and save your changes, and then close the Control Panel.

Your computer is now ready to use the Modem's DHCP server.

Windows 95, 98

First, check for the IP protocol and, if necessary, install it:

1. In the Windows task bar, click the Start button, point to **Settings**, and then click **Control Panel**. Double-click the Network icon.
2. The Network dialog box displays with a list of currently installed network components. If the list includes TCP/IP, and then the protocol has already been enabled, skip to *Configure IP Information Windows 95, 98*.
3. If TCP/IP does not display as an installed component, click **Add**. The Select Network Component Type dialog box displays.
4. Select **Protocol**, and then click **Add**. The Select Network Protocol dialog box displays.
5. Click on **Microsoft** in the Manufacturers list box, and then click **TCP/IP** in the Network Protocols list box.
6. Click **OK** to return to the Network dialog box, and then click **OK** again. You may be prompted to install files from your Windows 95/98 installation CD. Follow the instructions to install the files.
7. Click **OK** to restart the PC and complete the TCP/IP installation.

Configure Windows 95, 98 for DHCP

1. Open the Control Panel window, and then click the Network icon.
2. Select the network component labeled TCP/IP, and then click **Properties**.
3. If you have multiple TCP/IP listings, select the listing associated with your network card or adapter.
4. In the TCP/IP Properties dialog box, click the IP Address tab.
5. Click the **Obtain an IP address automatically** option.
6. Double-click **OK** to confirm and save your changes. You will be prompted to restart Windows.
7. Click **Yes**.

When it has restarted your computer is ready to use the Modem's DHCP server.

Windows NT 4.0 workstations:

First, check for the IP protocol and, if necessary, install it:

1. In the Windows NT task bar, click the Start button, point to **Settings**, and then click **Control Panel**.
2. In the Control Panel window, double click the Network icon.
3. In the Network dialog box, click the Protocols tab.
4. The Protocols tab displays a list of currently installed network protocols. If the list includes TCP/IP, then the protocol has already been enabled. Skip to "Configure IP Information"
5. If TCP/IP does not display as an installed component, click **Add**.
6. In the Select Network Protocol dialog box, select **TCP/IP**, and then click **OK**. You may be prompted to install files from your Windows NT installation CD or other media. Follow the instructions to install the files.
7. After all files are installed, a window displays to inform you that a TCP/IP service called DHCP can be set up to dynamically assign IP information.
8. Click **Yes** to continue, and then click **OK** if prompted to restart your computer.

Configure Windows NT 4.0 for DHCP

1. Open the Control Panel window, and then double-click the Network icon.
2. In the Network dialog box, click the Protocols tab.
3. In the Protocols tab, select **TCP/IP**, and then click **Properties**.
4. In the Microsoft TCP/IP Properties dialog box, click the **Obtain an IP address automatically** option.
5. Click **OK** twice to confirm and save your changes, and then close the Control Panel.

Your computer is now ready to use the Modem's DHCP server.

Accessing the Modem's Web Configuration Manager

Once the computer has IP settings that allow it to access the web-based configuration software, you can change the settings to enable the Modem to connect to the Internet.

If the browser software on the computer you are using is configured to use a proxy server for Internet access, it is necessary to first disable the proxy connection.

Note

Be sure that the web browser on your computer is not configured to use a proxy server in the Internet settings. In Windows Internet Explorer, you can check if a proxy server is enabled using the following procedure:

1. *In Windows, click on the START button, go to Settings and choose Control Panel.*
2. *In the Control Panel window, double-click on the Internet Options icon.*
3. *Click the Connections tab and click on the LAN Settings button.*
4. *Verify that the "Use proxy server" option is NOT checked. If it is checked, click in the checked box to deselect the option and click OK.*

Alternatively you can access this Internet Options menu using the Tools pull down menu in Internet Explorer.

To use the web-based management software, launch your web browser software and use the LAN IP address of the Modem to access the management software. The default LAN IP address of the Modem is used in the Address bar of your web browser window.

If you are using an Ethernet NIC to connect your computer to the modem, type in **http://** followed by the default IP address, **10.1.1.1** in the address bar of the browser. The URL in the address bar should read: **http://10.1.1.1**

If you are using a USB port to connect your computer to the modem, type in **http://** followed by the default IP address, **10.1.1.2** in the address bar of the browser. The URL in the address bar should read: **http://10.1.1.2** You can also use the **DSL 302G USB Config** link that the USB Driver installation program will put on your computer's desktop.

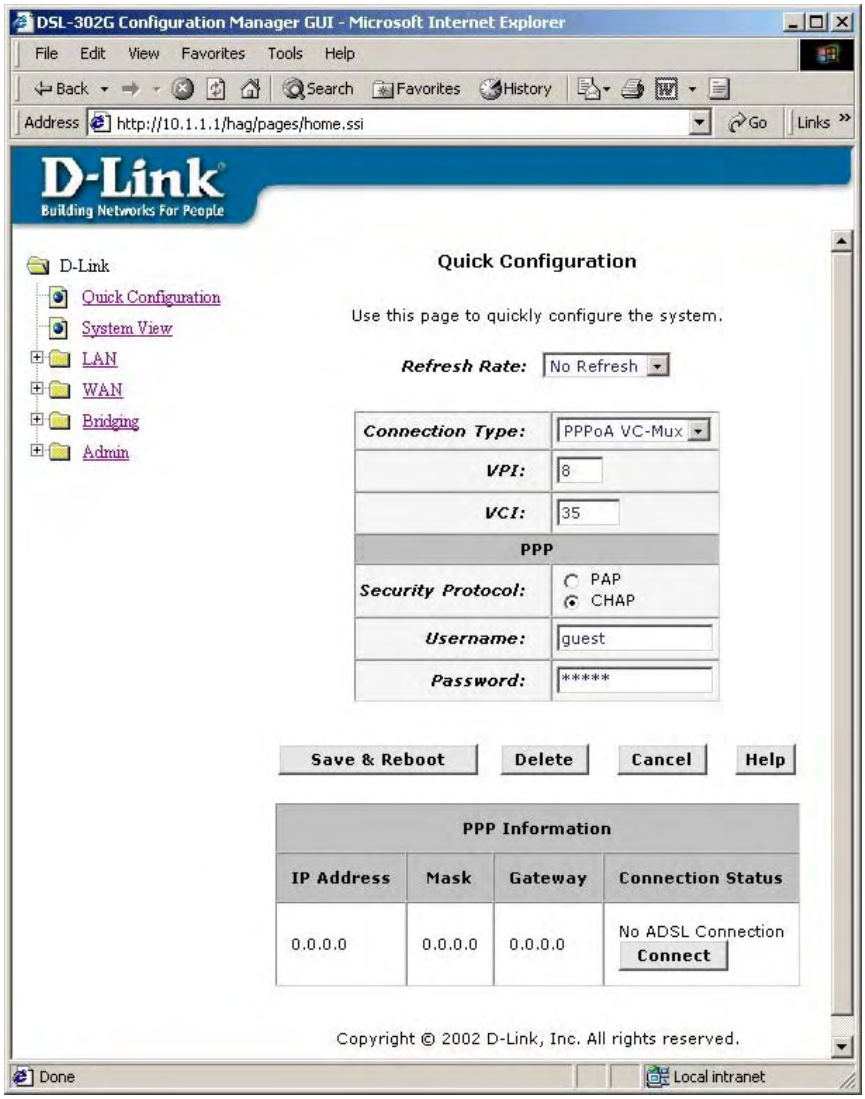
A new window appears prompting you for a user name and password needed to gain access the web configuration manager.

Use the default User Name: **admin** and Password: **admin** for the first time set up. You can change the password once you have established the ADSL connection. The user name and password allows any computer on the same subnet as the Modem to access the web configuration manger. This password can also be used to Telnet to the device through the Ethernet or the Internet interfaces. To change this password, see the next chapter.

Note

Do not confuse the user name and password used to access the web-based manager with the ADSL account user name and password needed for PPP connections to access the ADSL or network service provider's network.

The first web page you will see when you successfully login is the Quick Configuration page. This page can be used to establish the ADSL connection.



Web-based Manager – First Time Log On

Use the Quick Configuration menu to change the Modem's configuration settings as instructed by your ISP. You will then need to save or the settings to the flash memory and reboot the Modem.

IMPORTANT

If you are using IPoA or a bridged Ethernet connection (RFC 1483) you cannot use the Quick Configuration menu to establish the connection. Please read the next chapter for instructions for using IPoA and bridged Ethernet connections.

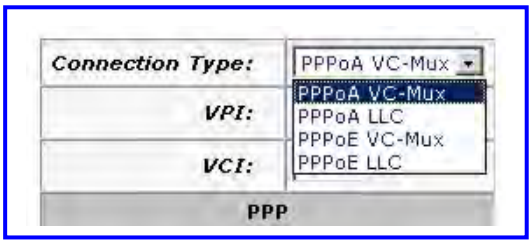
Configure the Internet Connection (ADSL Service Connection)

For ADSL connections using either a PPPoE or PPPoA type of connection, all the settings necessary to establish the connection to your service provider's network and ultimately to the Internet can be configured in the Quick Configuration menu of the web manager. Most users will use the Quick Configuration menu. If you are instructed to configure the device for a bridged connection or if you are setting up an IPoA connection, follow the instructions beginning on the next page.

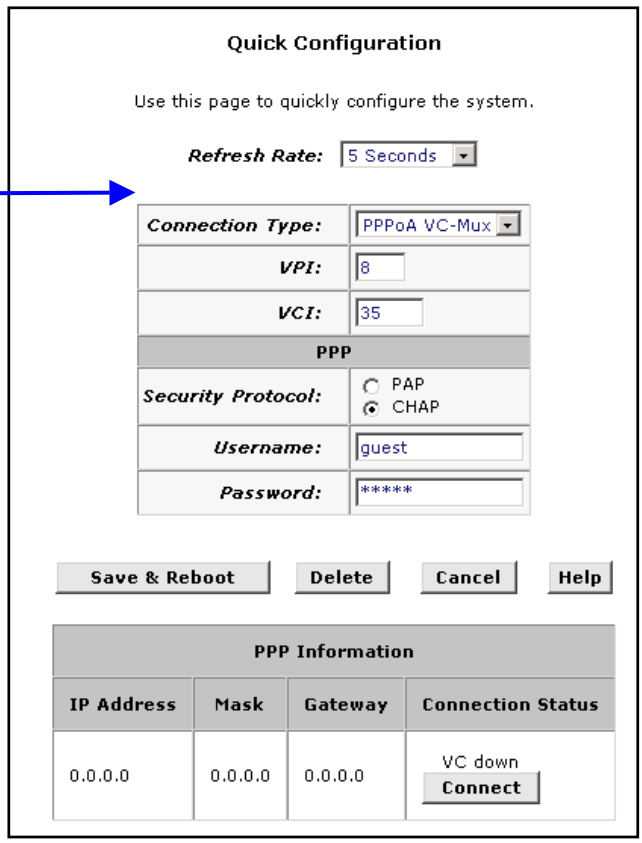
Configure PPPoA and PPPoE Connections

For ADSL accounts using PPPoA or PPPoE connections, follow the steps below to establish the Internet connection:

1. Choose the Connection Type. Select *PPPoA LLC*, *PPPoA VC-Mux*, *PPPoE VC-Mux*, *PPPoE LLC*, from the pull-down menu.



2. If necessary, change the VPI/VCI values. Many users will use the default values VPI: 8 and VCI: 35.
3. Type in the Username or account number used to access the service provider's network.
4. Type in the Password for your account used to access the service provider's network.



Quick Configuration

Save & Reboot

When you have defined the Quick Configuration settings, click the Save & Reboot button to save the settings in temporary and reboot the system. The Modem will negotiate the ADSL connection automatically upon rebooting. This will normally take a few seconds. When the ADSL connection has been successfully established, the ADSL Link LED indicator will light steady green. If the ADSL Link indicator does not light after a minute or so access the web configuration manager and double check the settings.

Configuring the Modem for a Bridged or an IPoA Connection

Bridge Mode

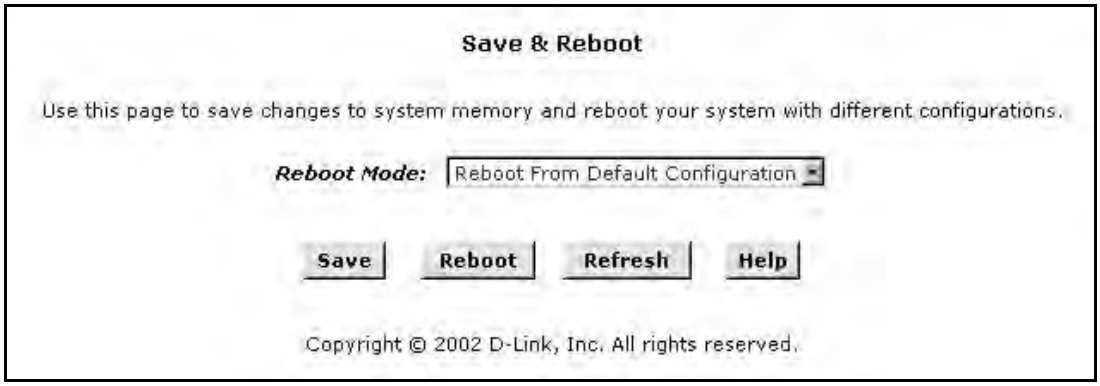
When your DSL-302G ADSL modem operates in Bridge mode (EoA), it only handles the transfer of data between your ADSL service provider and your computer. Your computer will need to have software installed that will allow it to "accept" the ADSL connection, and your ADSL service provider will need to provide you with this software, along with instructions about how to install the software and configure your computer for the ADSL connection.

IPoA Mode

If your ADSL service provider is using the Internet Protocol over ATM (IPoA), you will need to configure your DSL-302G modem to use this protocol. The configuration steps are nearly the same as the steps required to configure the modem for Bridge mode. Follow the steps below, and watch for the **IPoA** heading.

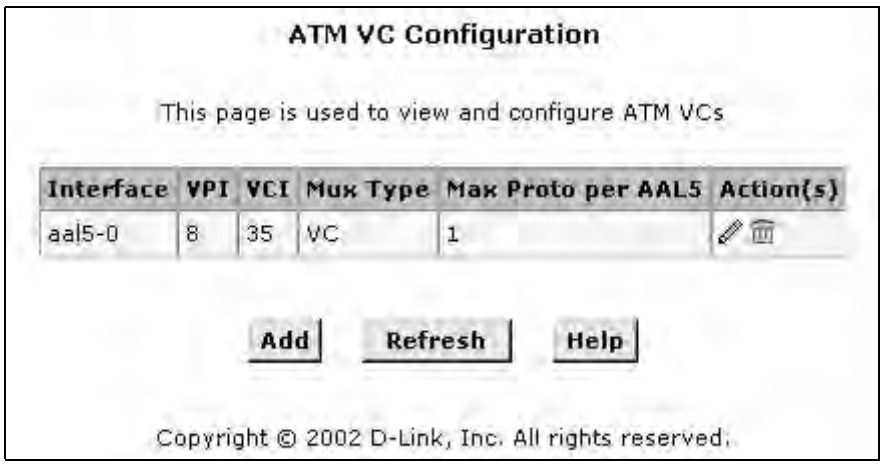
Configuring the DSL-302G for a Bridged (EoA) or IPoA ADSL Connection

The DSL-302G ADSL modem is shipped from the factory with PPPoA as the default operating mode. To ensure that the DSL-302G configuration is set to it's factory default settings, you should reboot the modem using the **Reboot from Default Configuration** option. Click on the **Admin** folder and then click the **Save & Reboot** link. This will open the **Save & Reboot** menu, as shown below.

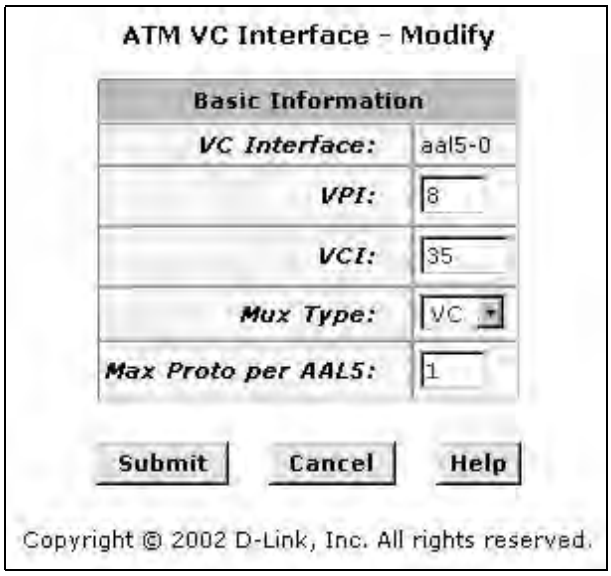

Save & Reboot
Use this page to save changes to system memory and reboot your system with different configurations.
Reboot Mode:
Reboot From Default Configuration
Save
Reboot
Refresh
Help
Copyright © 2002 D-Link, Inc. All rights reserved.

Choose **Reboot from Default Configuration** from the **Reboot Mode:** drop-down menu and then click the **Reboot** button.

Once the modem reboots, click the **Refresh** button on your Web browser. When the modem's configuration manager reappears, open the **Bridging** folder and click on the **ATM VCC** link. This will open the **ATM VC Configuration** menu, as shown below.

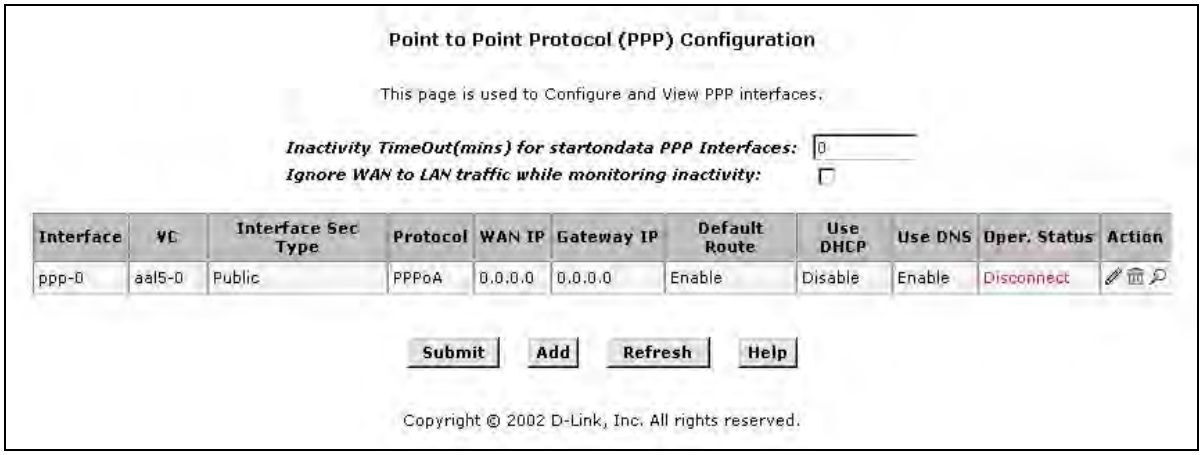


Verify that the **VPI/VCI** and **Mux Type** (VC-Mux or LLC) settings match those provided to you by your ADSL service provider. If you need to change these settings, click on the pencil icon. This will open the **ATM VC Interface – Modify** menu, as shown below.



Enter the VPI/VCI and Mux Type settings as provided by your ADSL service provider. Most users will use **LLC** *Mux Type*. Click the **Submit** button to make the changes current. A screen will appear to confirm the change in the ATM VC interface.

Next, open the **WAN** folder and click on the **PPP** link. This will open the **Point to Point Protocol (PPP) Configuration** menu, as shown below.

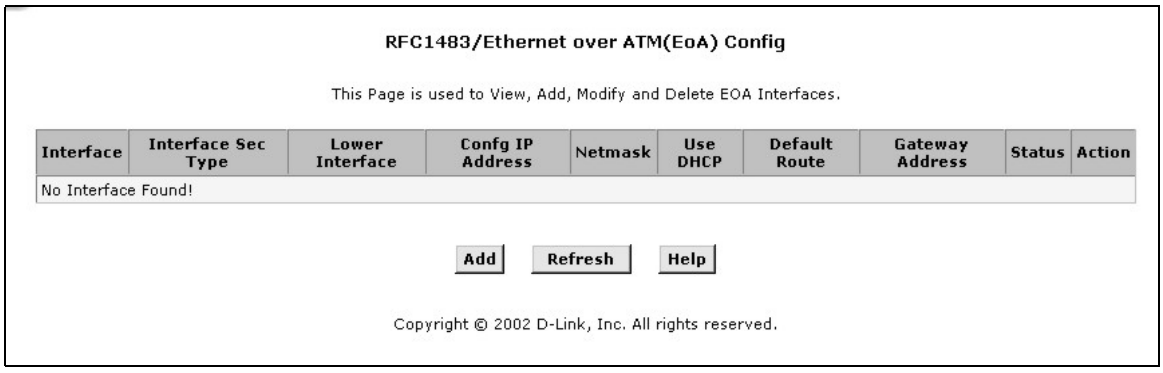


Click on the Trash Can icon to delete the current PPP configuration, then click on the **Submit** button to make the change current.

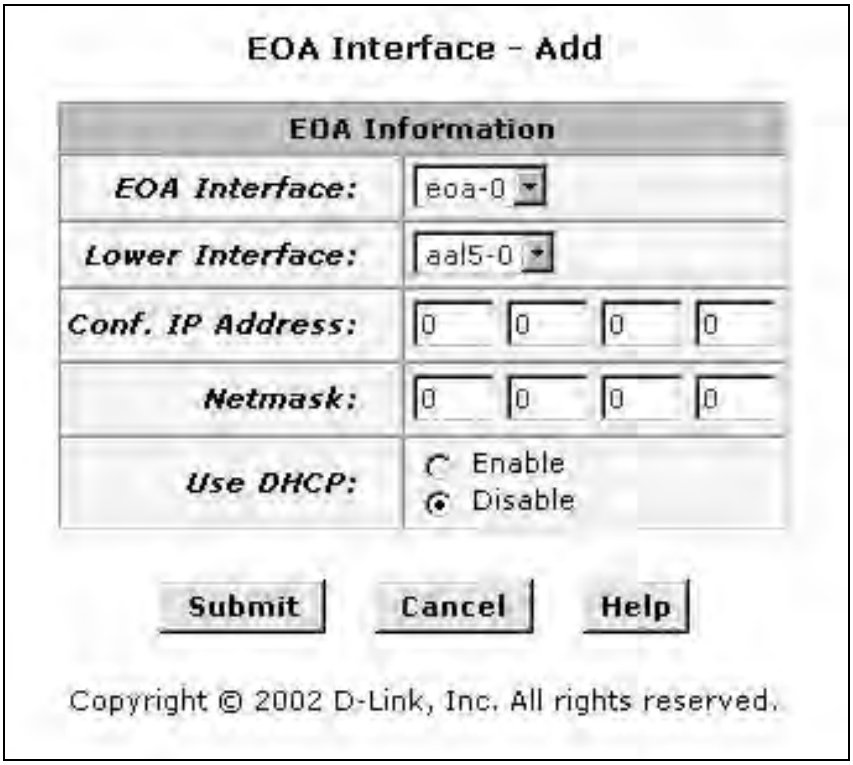
Configuring the Modem for Bridge Mode (EoA)

To configure the DSL-302G ADSL modem to operate in Bridge mode (Ethernet over ATM (EoA)), follow these instructions.

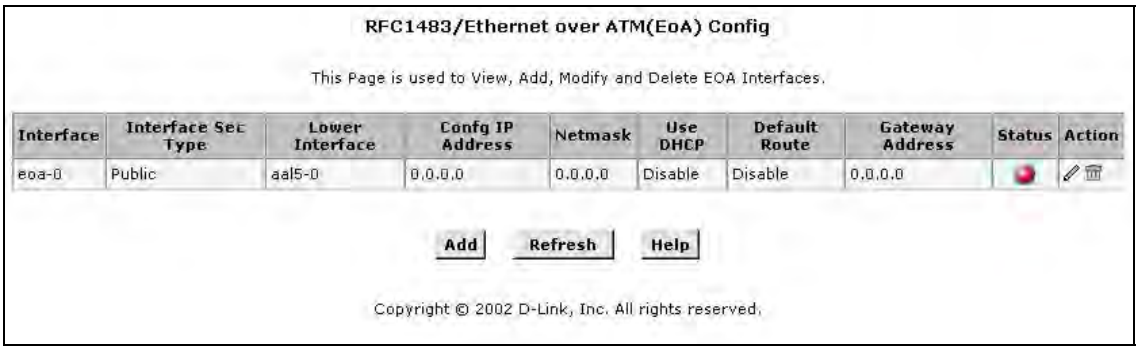
Open the **WAN** folder, and then click on the **EOA** link. This will open the **RFC1483/Ethernet over ATM (EoA) Config** menu, as shown below.



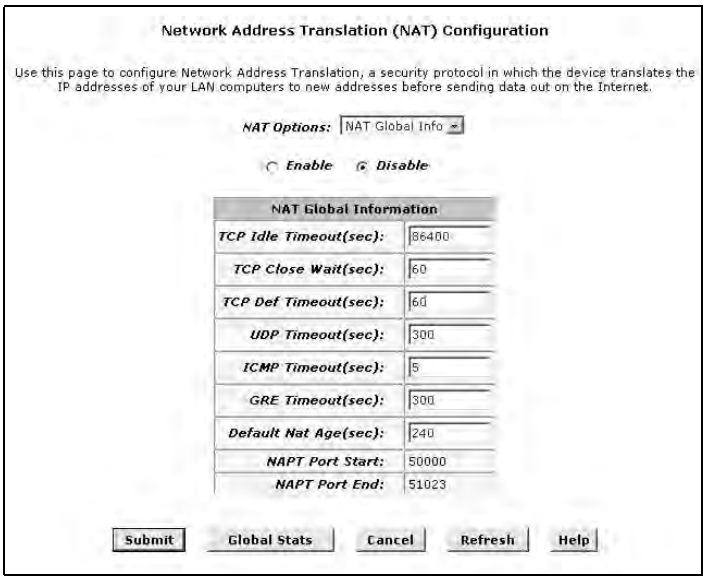
Click the **Add** button to open the **EOA Interface – Add** menu, as shown below.



Simply click the **Submit** button. Close the **EOA Interface – Add** menu, and click the **Refresh** button on the **RFC1483/Ethernet over ATM (EoA) Config** menu. This will now display the new protocol assignment, as shown below.

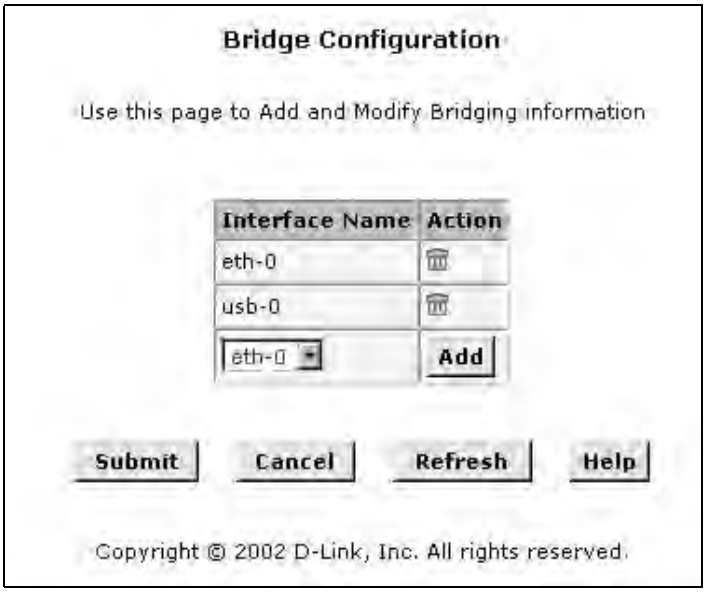


Next, you need to disable Network Address Translation (NAT) on the modem. Open the **WAN** folder (if it is not already open) and click on the **NAT** link. This will open the **Network Address Translation (NAT) Configuration** menu, as shown below.


Network Address Translation (NAT) Configuration
Use this page to configure Network Address Translation, a security protocol in which the device translates the IP addresses of your LAN computers to new addresses before sending data out on the Internet.
NAT Options: NAT Global Info
Enable
Disable
NAT Global Information
TCP Idle Timeout(sec): 86400
TCP Close Wait(sec): 60
TCP Def Timeout(sec): 60
UDP Timeout(sec): 300
ICMP Timeout(sec): 5
GRE Timeout(sec): 300
Default Nat Age(sec): 240
NAPT Port Start: 50000
NAPT Port End: 51023
Submit
Global Stats
Cancel
Refresh
Help

Click the **Disable** click-box, and then click the **Submit** button to make the change current.

Now open the **Bridging** folder and click on the **Bridging** link. This will open the **Bridge Configuration** menu, as shown below.



Select **eoa-0** from the drop-down menu opposite the **Add** button. Next, click on the **Add** button. A confirmation screen will appear briefly to confirm the addition of the new bridge configuration.

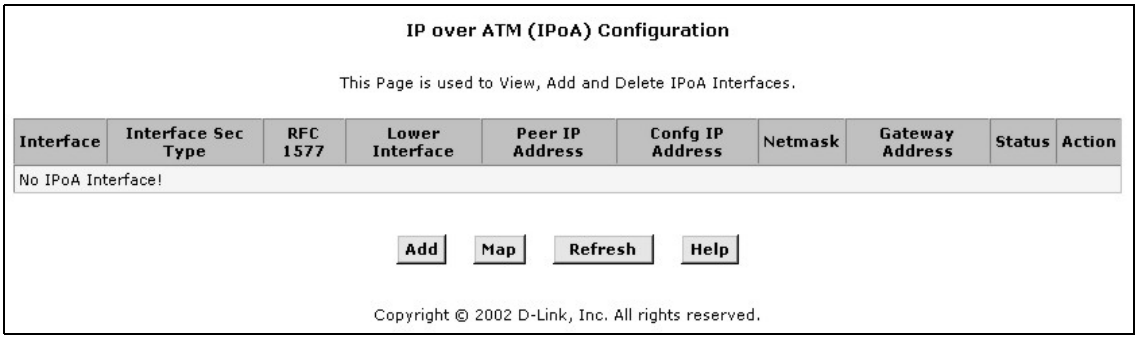
Finally, you will need to open the **Admin** folder and then click on the **Save & Reboot** link to open the **Save & Reboot** menu, and finally click the **Save** button to enter the settings into the modem's permanent memory.

Now you can setup your computer to use the IP address assigned to you by your ADSL service provider. Your ADSL service provider should give you the necessary software and instructions to setup your computer.

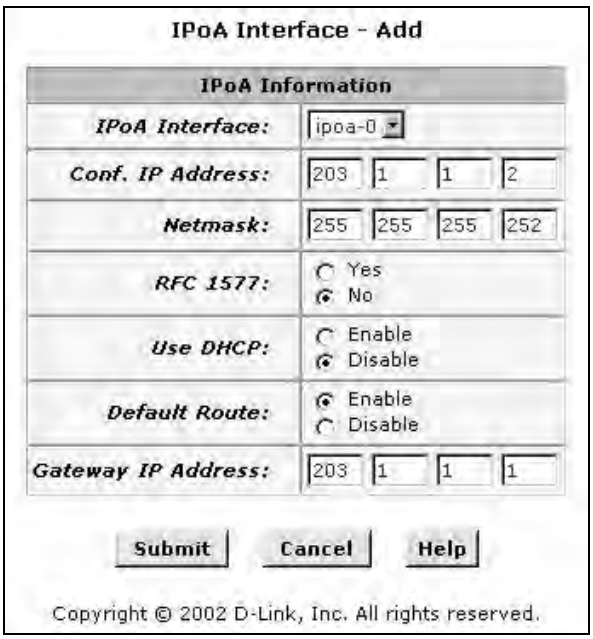
Configuring the Modem for IPoA Mode

To configure the DSL-302G ADSL modem to operate in Internet Protocol over ATM (IPoA) mode, follow these instructions.

Open the **WAN** folder and then click on the **IPOA** link. This will open the **IP over ATM (IPoA) Configuration** menu, as shown below.

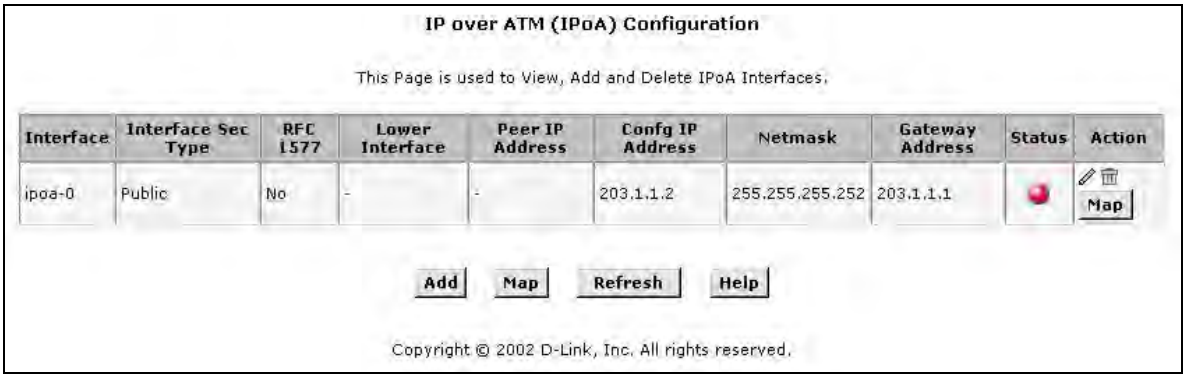


Click the **Add** button to open the **IPoA Interface – Add** menu, as shown below.

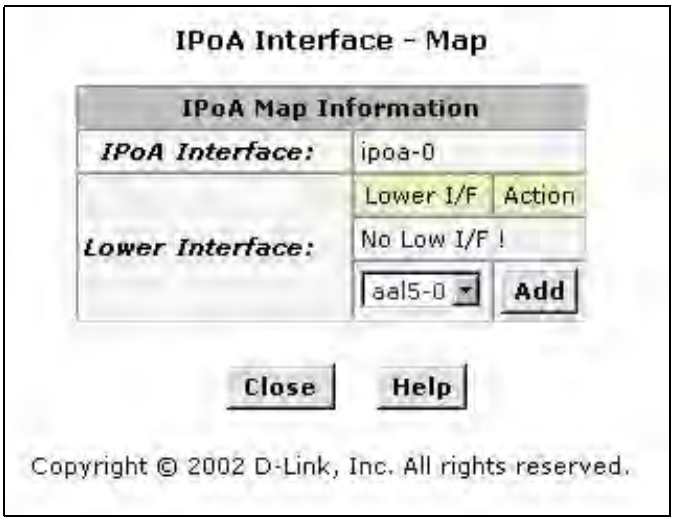


Enter the IPoA configuration information supplied to you by your ADSL service provider. In the example above, the ADSL service provider assigned an IP address of 203.1.1.2, a netmask of 255.255.255.252, and a gateway IP address of 203.1.1.1. Click the **Submit** button to make the change current. A confirmation screen will appear to confirm the changes. Close the **IPoA Interface – Add** menu.

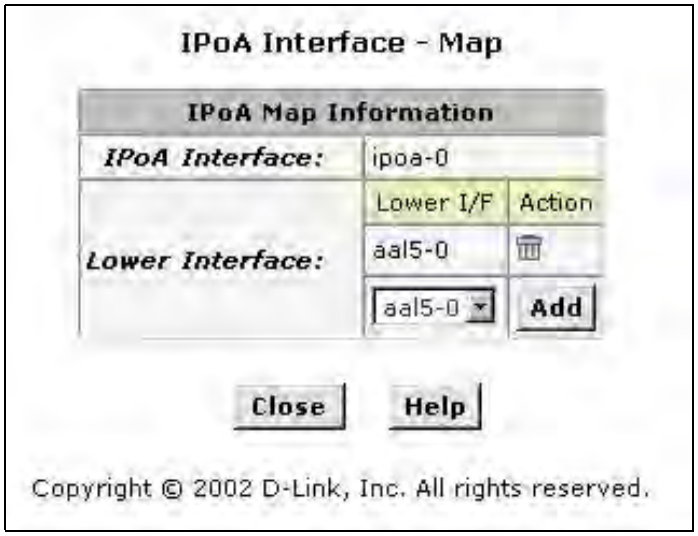
Now open the **WAN** folder (if it is not already open) and click the **IPoA** link. The newly created IPoA interface will now be displayed, as shown below.



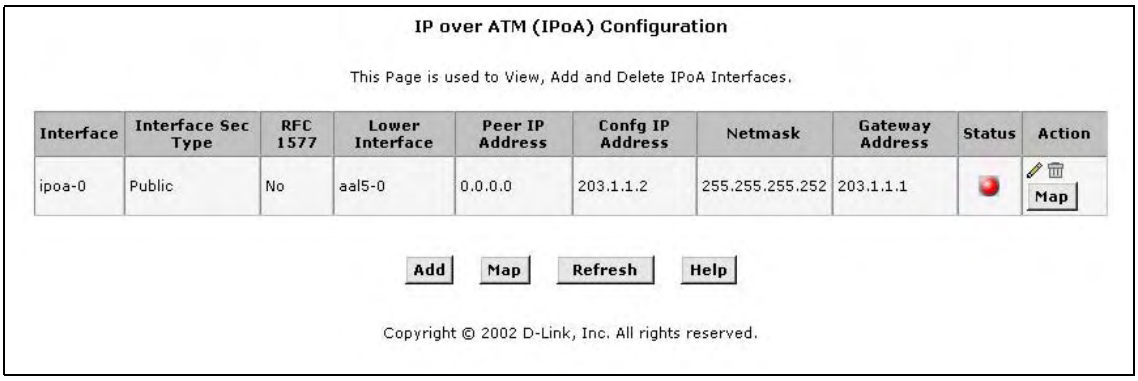
Now, click on the **Map** button. This will open the **IPoA Interface – Map** menu, as shown below.



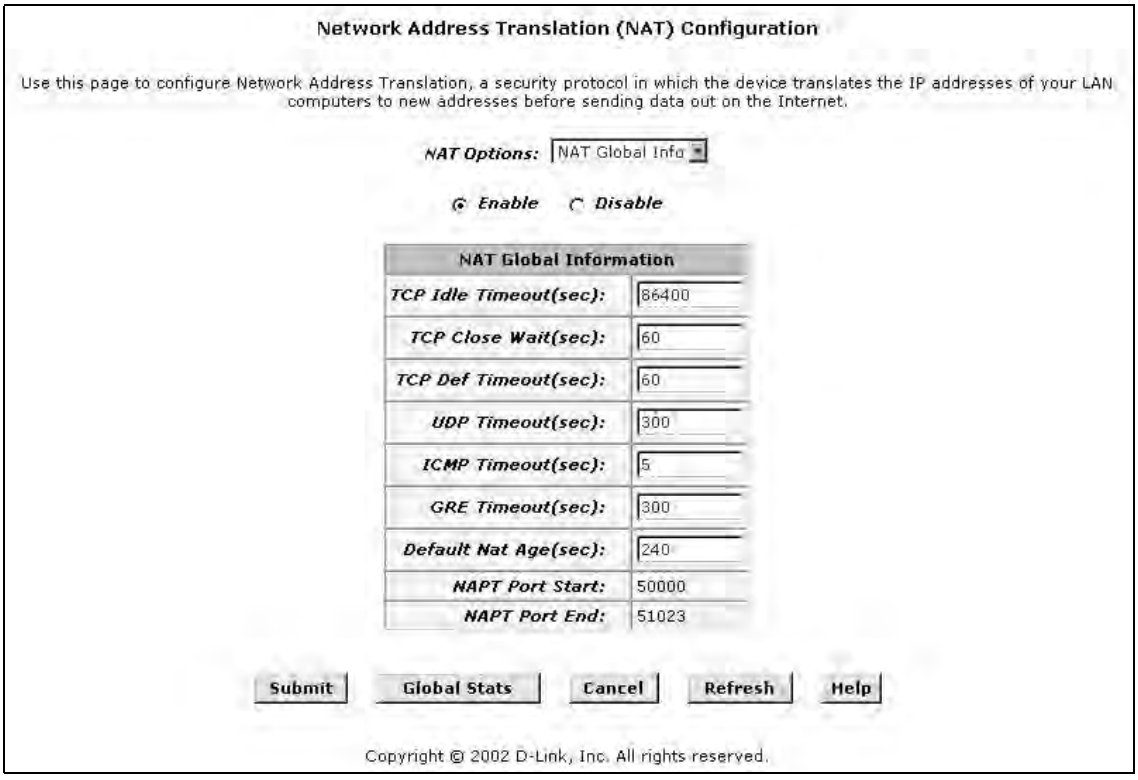
Simply click the **Add** button. You will see the **No Low I/F !** entry change to **aal5-0**, as shown below.



Close the IPoA Interface – Map menu. When the configuration manager reappears, click the **Refresh** button to update the information on the **IP over ATM (IPoA) Configuration** screen. It should look something like this:



Next, you need to confirm that Network Address Translation (NAT) is enabled on the modem. Open the **WAN** folder (if it is not already open) and click on the **NAT** link. This will open the **Network Address Translation (NAT) Configuration** menu, as shown below.



Click the **Enable** click-box, and then click the **Submit** button to make the change current.

Finally, you will need to open the **Admin** folder and then click on the **Save & Reboot** link to open the **Save & Reboot** menu, and finally click the **Save** button to enter the settings into the modem's permanent memory.

You will need to set your computer to **Obtain IP address automatically** to connect to your ADSL service provider's network and the Internet. Instructions about how to do this are included earlier in this DSL-302G User's Guide, if you do not know how.

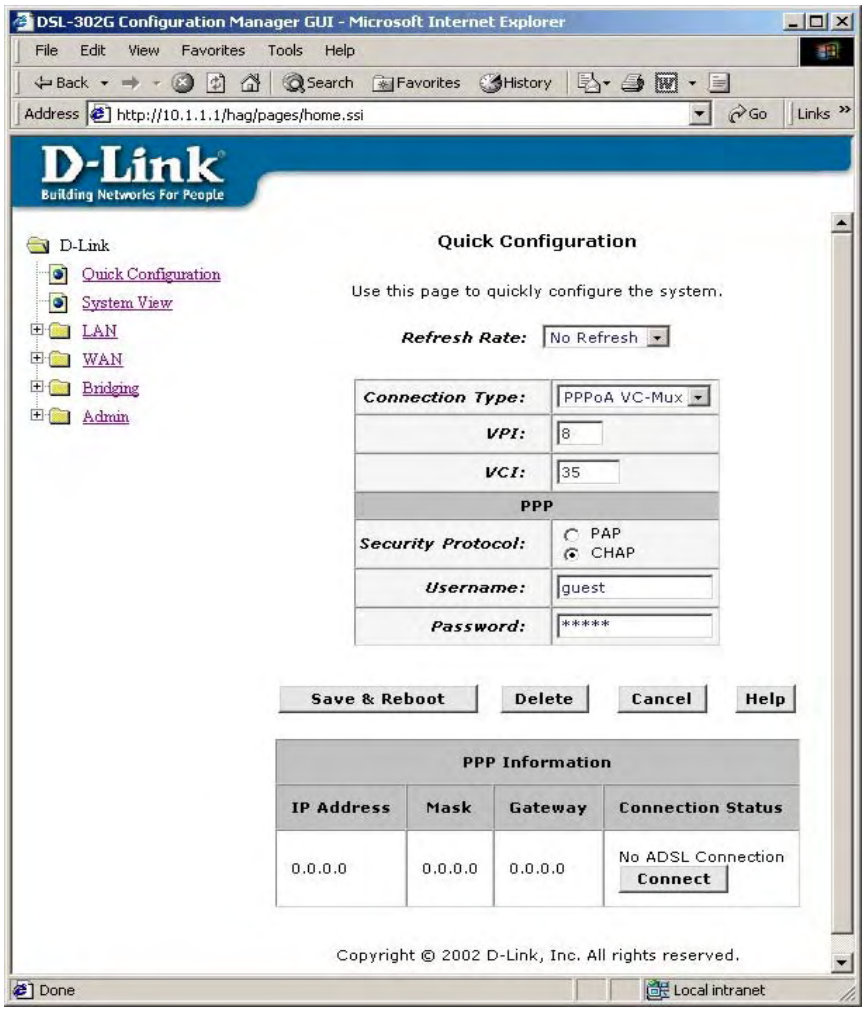
4

Web-based Configuration

This chapter describes how to use the embedded web-based management software to configure the Modem for additional PVC connection profiles, to change the LAN IP address, to change the global WAN IP address and to perform other management functions.

Manager Interface Layout

The management software used for the Modem initially presents the Quick Configuration menu shown below when you first log in. On the left side you see folders and hyperlinks. The folders contain hyperlinks used to access configuration and management menus. The LAN folder is used for assigning LAN IP settings to the Ethernet and USB interfaces. The WAN folder is used to configure settings that allow the Modem to operate on the service provider's network. If you have a bridged Ethernet or IPoA connection, find the EOA and IPOA hyperlinks in the WAN folder to configure the settings for these connection types. The Bridging folder contains information regarding the virtual circuits and protocols. If you are using the Modem for multiple virtual connections, this menu is used to configure these additional virtual connections. The last folder, Admin, is used for administration and diagnostics procedures.



Modem Web-based Quick Configuration Manager GUI

Note

*If you do not want the page to automatically refresh, choose "**No Refresh**" from the Refresh Rate: pull-down menu.*

Commonly Used Buttons

The following buttons are used throughout the web management application.

Submit	Stores in *temporary* system memory any changes you have made on the current page.
Refresh	Redisplays the current page with updated statistics or settings.
Clear	On pages that display accumulated statistics, this button resets the statistics to their initial values.
Help	Launches the online help for the current topic in a separate browser window. Help is available from the main topic pages.

Buttons Used in the Configuration Manager

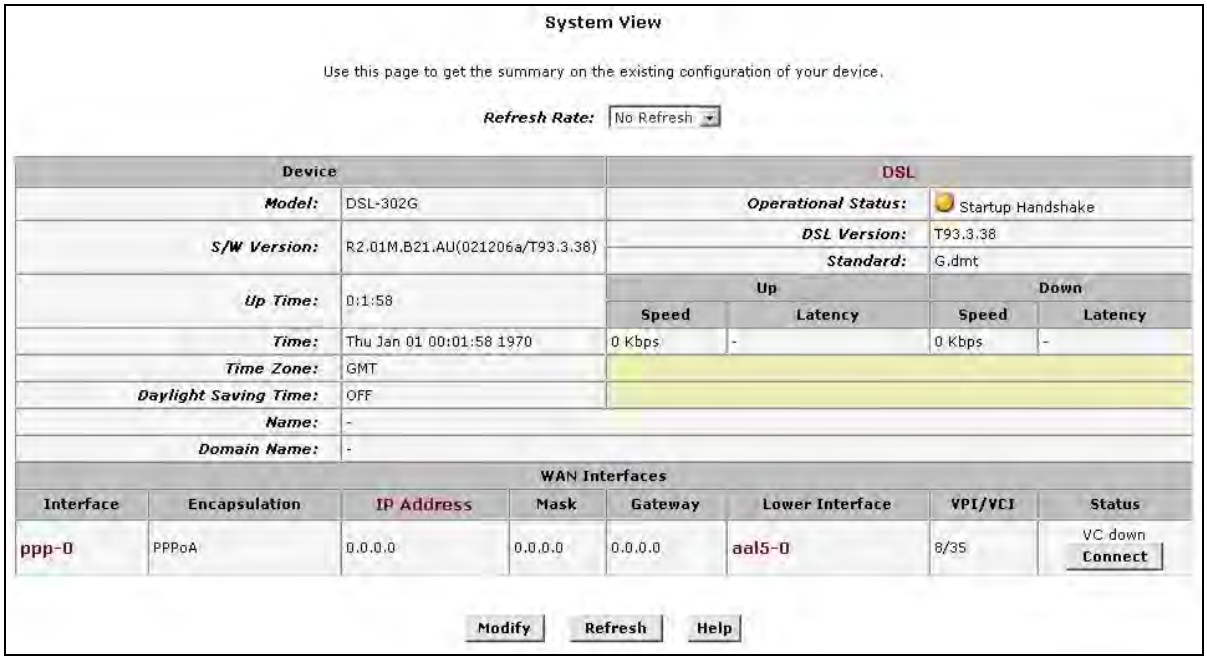
Quick Configuration

The Quick Configuration displays the settings you are most likely to need to change when you first set up the Modem. These settings are explained briefly below:

Refresh Rate	Select the time interval from the drop-down menu. The screen will be updated (refreshed) at this interval. If you do not want the page to automatically refresh, choose *No Refresh.*
Connection Type	Select *PPPoA LLC*, *PPPoA VC-Mux*, *PPPoE VC-Mux*, *PPPoE LLC*, from the pull-down menu.
VPI and VCI	These settings determine the unique data path your modem uses to communicate with your ISP. Do not change these unless you have been instructed to do so by your ISP. See **ATM VC Configuration** for more information on these settings.
Username and Password	Enter the username and password you use to log in to your ISP. ***Note:** this is not the same as the User Name and Password you used to log in to Web Configuration Manager*.

System View

The System View read-only table on the displays a summary of various system settings and functions as described in the table below. Red colored text headings in this display are hyperlinked to a relavent menu.



System View Display

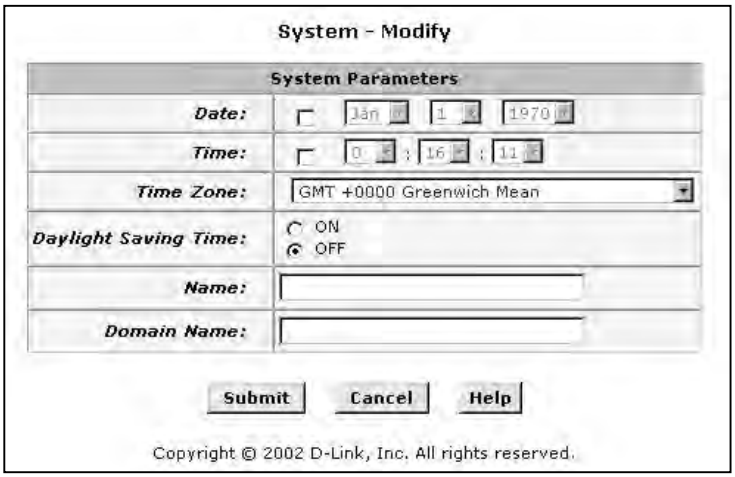
Device	Displays the basic information about the device hardware and software versions, the system uptime, and the operating mode.
DSL	Displays the operational status and performance statistics for the DSL line.
WAN Interface	Displays the names and settings for the device WAN interfaces that communicate with your ISP via DSL, such as a PPP, EOA, or IPoA interface. *Most users will use a single connection labeled ppp-0.* Multiple software-defined interfaces may be configured to use the DSL connection. Click on the interface names to view the configuration menus for these interfaces. Each interface should display a lower interface name such as aal-5. Click on the lower interface name to view or change the ATM VC settings that this interface uses.

To change the system time, click the **Modify** button (see next page).

System Time

Synchronize to local PC time

1. Click **Modify** button on the **System View** (HOME menu) page to open the ***System Parameters*** configuration.
2. Enter the current Date and Time
3. Click **Submit**. A page displays to confirm your change.
4. Click the Admin tab, and then click **Save & Reboot** in the task bar.
5. Click **Save** to save your changes to permanent memory.

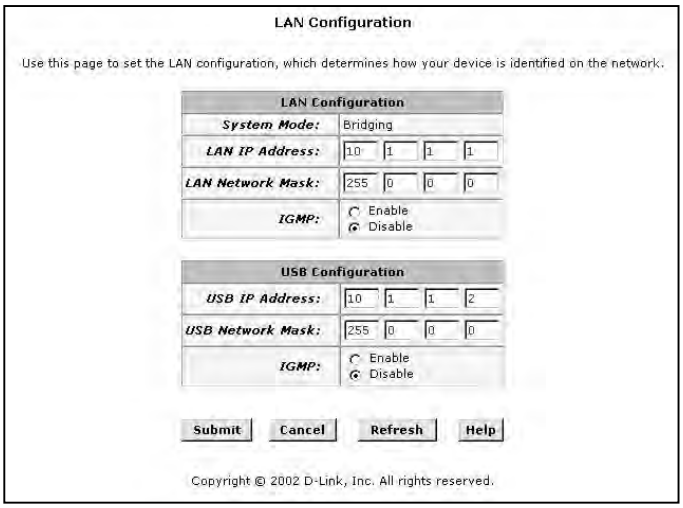


System - Modify

Changing the LAN IP Settings

The LAN IP address identifies the LAN port (eth-0) as a node on your network; that is, its LAN IP address must be in the same subnet as the computers on your LAN.

You can change the default LAN IP address and Net Mask for both the Ethernet and the USB port to suit the IP address arrangement you want to set up for your LAN. Click the LAN hyperlink to view the LAN Configuration menu.


LAN Configuration
Use this page to set the LAN configuration, which determines how your device is identified on the network.
LAN Configuration
System Mode: Bridging
LAN IP Address: 10 1 1 1
LAN Network Mask: 255 0 0 0
IGMP: Enable Disable
USB Configuration
USB IP Address: 10 1 1 2
USB Network Mask: 255 0 0 0
IGMP: Enable Disable
Submit
Cancel
Refresh
Help
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LAN Configuration

To change the Modem Ethernet IP address, click the Refresh button and type in the new settings as described below.

System Mode	Read-only, lists the current mode of operation for the device.
LAN IP Address	The IP address your computers use to identify the device's LAN port. Note that the public IP address assigned to you by your ISP is not your LAN IP address. The public IP address identifies the WAN (ADSL) port on your Modem to the Internet. Type in the IP address for the Ethernet LAN interface. Default = 10.1.1.1
LAN Network Mask	The LAN Network mask identifies which parts of the LAN IP Address refer to your network as a whole and which parts refer specifically to nodes on the network. Type in the Subnet Mask for the Ethernet LAN IP interface. Default = 255.0.0.0
USB IP Address	The IP address your computers use to identify the device's USB port. Note that the public IP address assigned to you by your ISP is not your USB IP address. The public IP address identifies the WAN (ADSL) port on your Modem to the Internet. Type in the IP address for the USB interface. Default = 10.1.1.2
USB Network Mask	The USB Network mask identifies which parts of the USB IP Address refer to your network as a whole and which parts refer specifically to nodes on the network. Type in the Subnet Mask for the USB interface. Default = 255.0.0.0

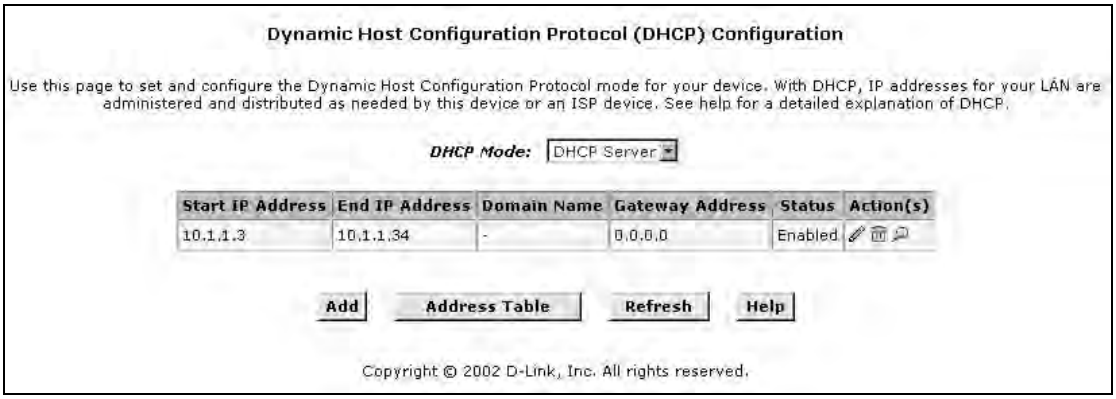
Click the Submit button to save the settings in temporary memory. If you are changing the IP address you will need to login again to access the web manager. If you are getting IP settings from DHCP, the new IP settings will be applied after you submit, commit and reboot. You must **Commit & Reboot** the device to save your changes to permanent memory.

DHCP Modes

DHCP services can be employed in one of three different ways; it can provide DHCP services, it can receive DHCP services, or it can relay DHCP service. By default the device is configured to act as a DHCP server on the Ethernet LAN. In this case it will supply IP settings to hosts that are configured to receive IP settings from a DHCP server.

The device may also be configured to relay IP settings from your ISP's DHCP server. In this case, you will want to configure the client hosts on your LAN to automatically obtain IP settings.

Finally the Modem can perform no DHCP function at all. In this case, it will need to be either manually assigned IP settings or receive them from a DHCP server on your LAN or from the ISP (see previous section).


Dynamic Host Configuration Protocol (DHCP) Configuration
Use this page to set and configure the Dynamic Host Configuration Protocol mode for your device. With DHCP, IP addresses for your LAN are administered and distributed as needed by this device or an ISP device. See help for a detailed explanation of DHCP.
DHCP Mode: DHCP Server
Start IP Address
End IP Address
Domain Name
Gateway Address
Status
Action(s)
10.1.1.3
10.1.1.34
-
0.0.0.0
Enabled
Add
Address Table
Refresh
Help
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DHCP Mode Configuration

Choose one the options below from the **DHCP Mode:** drop-down menu.

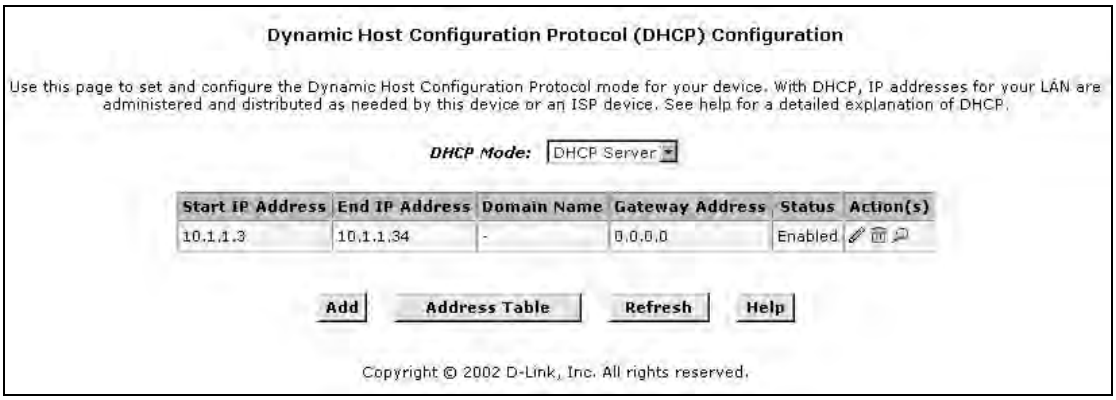
DHCP Server	This is the default mode for the Modem. In this mode it provides DHCP services to properly configured hosts on the Ethernet LAN.
DHCP Relay	In this mode the Modem is an intermediary device or relay agent between a DHCP server owned by the ISP and host systems on your LAN.
none	In this mode the device does deliver or relay any DHCP services. If you choose this option and are operating in Modem mode you will need to supply IP settings to the device manually (see previous section).

Click the Submit button to save the settings in temporary memory. When you are done making changes to the configuration settings, open the **Commit & Reboot** menu and click the Commit button to save your changes to permanent memory.

DHCP Server

In order to use more than one DHCP server, it will be necessary to define one or two sets of parameters for each IP address pool. First use the DHCP Server menu to define new DHCP server IP address pool settings. All additional DHCP servers must be added using the DHCP Server menu.

To modify an existing DHCP Pool setting, click the pencil icon ( ) for that set. When you choose to add a new set, a new menu appears (see Additional DHCP Server). To delete an existing DHCP Pool setting, click the trashcan ( ) for that set. To check the detailed DHCP server setting information, click ( ) for that set.


Dynamic Host Configuration Protocol (DHCP) Configuration
Use this page to set and configure the Dynamic Host Configuration Protocol mode for your device. With DHCP, IP addresses for your LAN are administered and distributed as needed by this device or an ISP device. See help for a detailed explanation of DHCP.
DHCP Mode: DHCP Server
Start IP Address
End IP Address
Domain Name
Gateway Address
Status
Action(s)
10.1.1.3
10.1.1.34
-
0.0.0.0
Enabled
Add
Address Table
Refresh
Help
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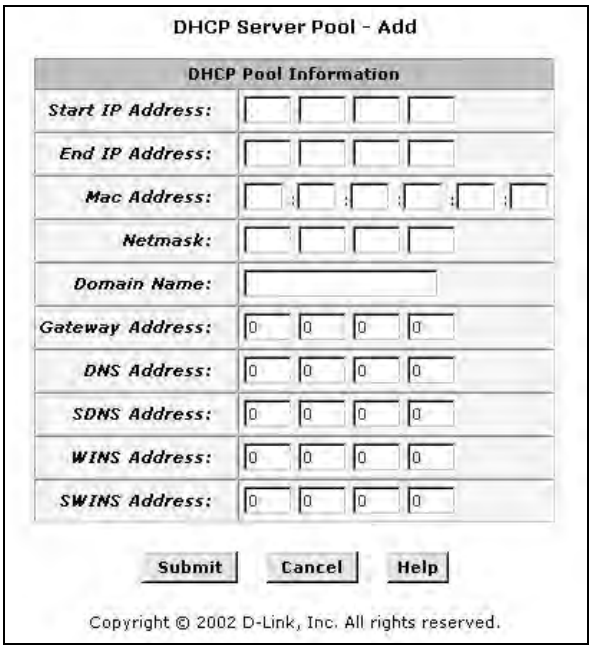
DHCP Server Configuration Menu

Adding to the DHCP Server Pool

Click **Add**, the DHCP Server Pool – Add page will be displayed, as below.



DHCP Server – Add Parameters

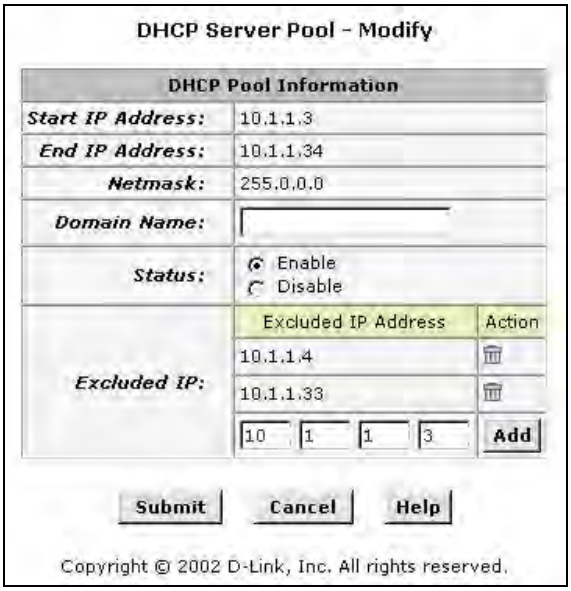
To Add DHCP server parameters define the following:

Start IP Address	Type in the base address for the IP pool of unassigned IP addresses.
End IP Address	Type in the last address of the contiguous IP address range to be used by the Modem for DHCP function.
Mac Address	A MAC address is the series ID unique for each device on a network. Use this field only if you want to assign a specific IP address to the computer that uses this MAC address. If you type a MAC address here, you must have specified the same IP address in both the Start IP Address and End IP Address fields.
NetMask	Type in a subnet mask IP address.
Domain Name	Enter a domain name for the network group or leave blank.
Gateway Address	Type in the Default Gateway IP Address that will be assigned to and used by the DHCP clients.
DNS Address	Enter any Internet DNS server IP address available through the WAN connection or use the DNS settings supplied by your service provider.
SDNS Address	Enter a backup DNS IP address or leave blank.
WINS Address	Some LANs may require using WINS servers, enter the IP address of the WINS server or leave blank.
SWINS Address	Enter a back-up WINS server IP address or leave blank.

Click the Submit button to save the settings in temporary memory. When you are done making changes to the configuration settings, open the **Commit & Reboot** menu and click the Commit button to save your changes to permanent memory.

Modify DHCP Server

To modify the pool, click . The DHCP Server Pool – Modify page displays as below.



DHCP Server Pool – Modify

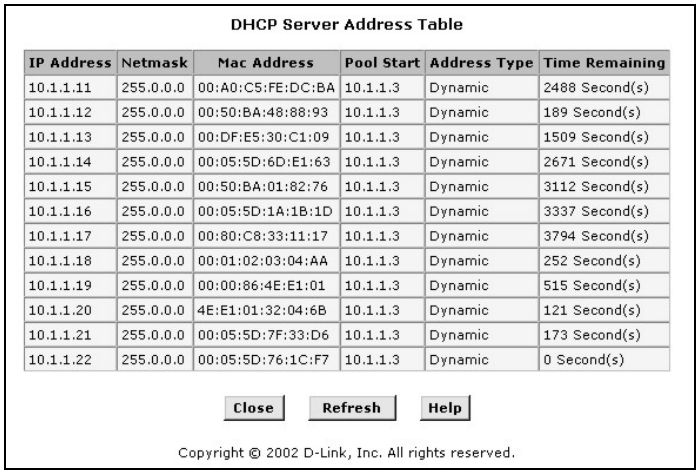
To modify DHCP server parameters define the following:

Domain Name	Enter a domain name for the network group or leave blank.
Status	Enable/disable the pool. By default, a pool is enabled when you create it.
Excluded IP	If you have IP addresses that are designated for fixed use with specific devices, or for some other reason you do not want to make them available to your network, you can exclude them from the pool.

Click the Submit button to save the settings in temporary memory. When you are done making changes to the configuration settings, open the **Commit & Reboot** menu and click the Commit button to save your changes to permanent memory.

View current DHCP address assignments

When the Modem acts as a DHCP server, it keeps a record of any address currently leased to your computers. To view a table of all current IP address assignments, display the DHCP Server Configuration page, and then click **Address Table**. A page displays similar to that shown as below.



DHCP Server Address Table

To following definitions may be helpful in reading the DHCP Server Address Table:

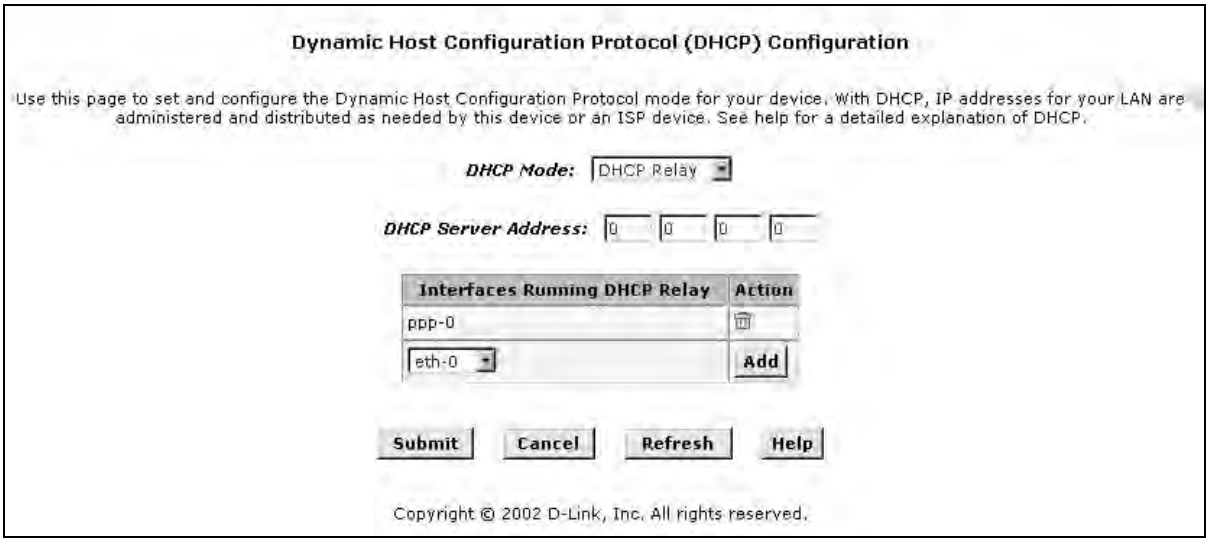
IP Address	The address that has been leased from the pool.
Netmask	The network mask associated with the leased address.
Mac Address	The unique hardware ID of the computer to which the IP address has been assigned.
Pool Start	The start IP which identify this pool from which the leased address was assigned.
Address Type	*Static* or *Dynamic*. *Static* indicates that the IP number has been assigned permanently to the specific hardware device. *Dynamic* indicates that the number has been leased temporarily for a specified length of time.
Time Remaining	The amount of time left for the device to use the assigned address.

DHCP Relay

Some ISPs perform the DHCP server function for their customers' home/small office networks. In this case, you can configure the Modem as a DHCP relay agent. When a computer on your network requests Internet access, the Modem contacts your ISP to obtain an IP address (and other information), and then forwards that information to the computer. Follow these instructions to configure DHCP relay.

First of all, you must configure your PCs to accept DHCP information assigned by a DHCP server. Open the Windows Control Panel and display the computer's Networking properties. Configure the TCP/IP properties to "Obtain an IP address automatically". For detailed instructions, see the section of "Configure the Host PC as a DHCP Client"

Next, you specify the IP address of the DHCP server and select the interfaces on your network that will be using the relay service in DHCP Relay configuration menu as below.


Dynamic Host Configuration Protocol (DHCP) Configuration
Use this page to set and configure the Dynamic Host Configuration Protocol mode for your device. With DHCP, IP addresses for your LAN are administered and distributed as needed by this device or an ISP device. See help for a detailed explanation of DHCP.
DHCP Mode:
DHCP Relay
DHCP Server Address:
0 0 0 0
Interfaces Running DHCP Relay
Action
ppp-0
eth-0
Add
Submit
Cancel
Refresh
Help
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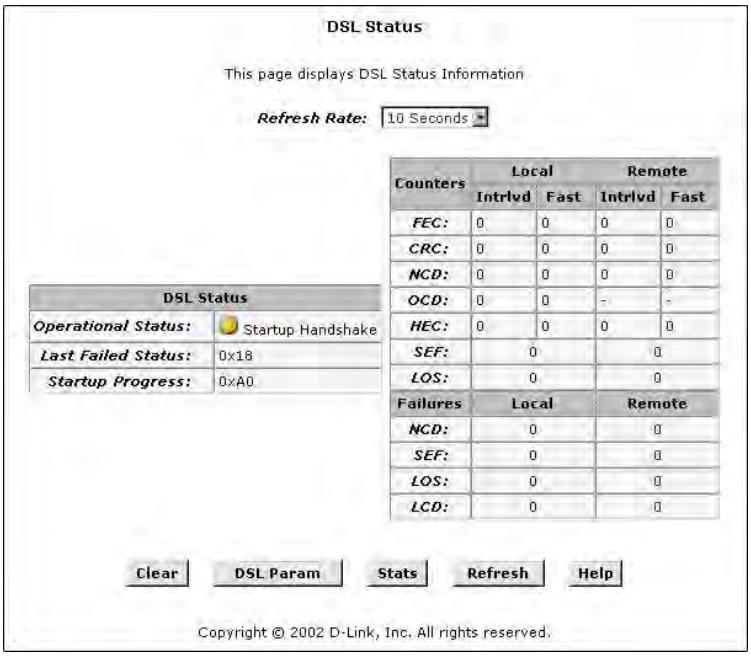
DHCP Relay Configuration Menu

WAN Configuration Options

If you are using the Modem with two or more virtual connections (VC) one way to configure the additional connections is by using the WAN folder menus. You can use the ATM VC configuration menu to first create the additional VC. You may then need to create or modify a WAN interface using the PPP or IPoA configuration menus.

DSL Status

The DSL Status page displays current information on the DSL line configuration parameters and performance statistics as following.



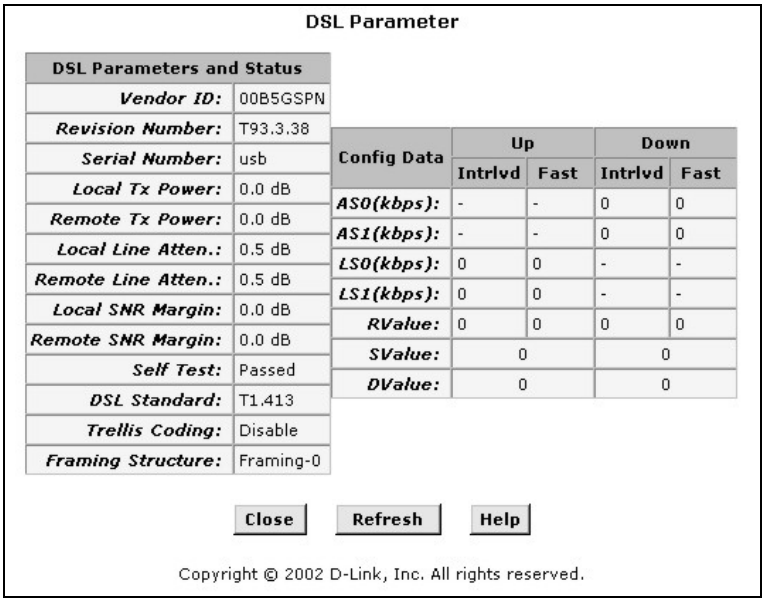
DSL Status Table

Refresh Rate	Set the rate of automatically refresh the screen
Clear	Reset all counters to zero
DSL Param	Display data about the configuration of the DSL line
Stats	Display DSL line performance statistics
Refresh	Redisplay the page with newly accumulated values

DSL Param

The DSL Parameters and Status table displays settings pre-configured by the product manufacturer or your ISP.

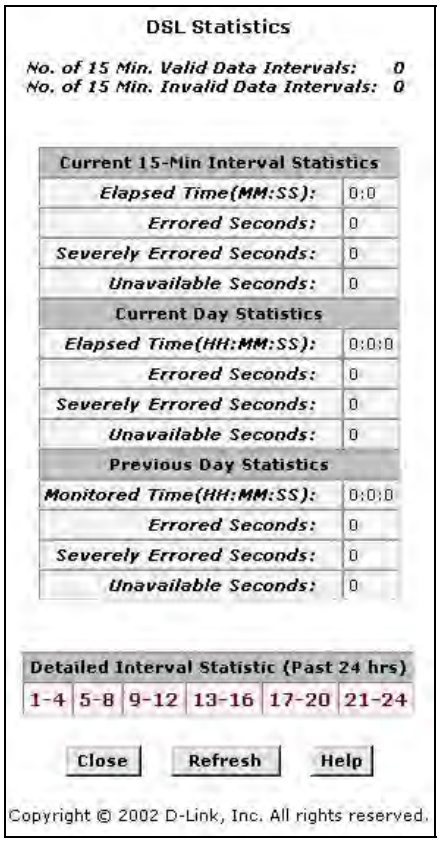
The Config Data table lists various types of error and defects measurements found on the DSL line. You cannot modify this data.



DSL Parameters and Status

DSL Statistics

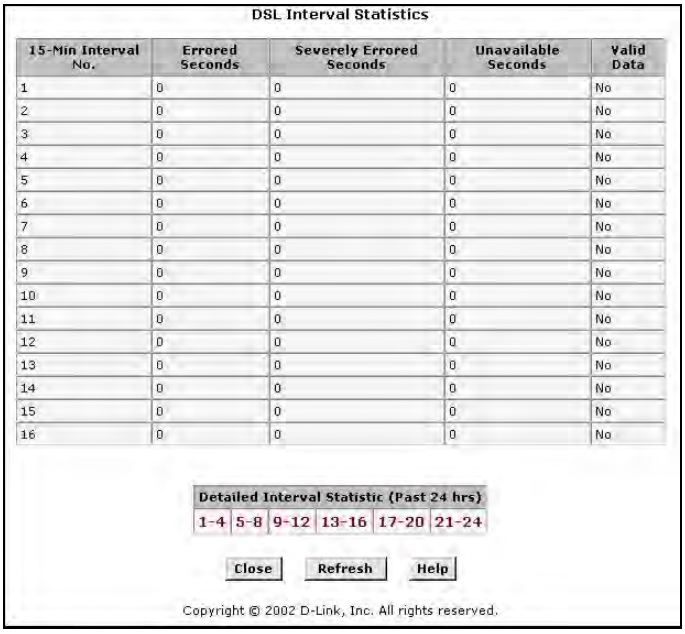
This page displays DSL line performance statistics as below.



DSL Line Performance Statistics

The DSL Statistics page reports error data relating to the last 15-minute interval, the current day, and the previous day. At the bottom of the page, the Detailed Interval Statistic table displays links you can click on to

display detailed data for each 15-minute interval in the past 24 hours. For example, when you click on 1-4, data displays for the 16 intervals (15-minutes each) that make up the previous 4 hours.



DSL Interval Statistics

15-Min Interval No.	Errored Seconds	Severely Errored Seconds	Unavailable Seconds	Valid Data
1	0	0	0	No
2	0	0	0	No
3	0	0	0	No
4	0	0	0	No
5	0	0	0	No
6	0	0	0	No
7	0	0	0	No
8	0	0	0	No
9	0	0	0	No
10	0	0	0	No
11	0	0	0	No
12	0	0	0	No
13	0	0	0	No
14	0	0	0	No
15	0	0	0	No
16	0	0	0	No

Detailed Interval Statistic (Past 24 hrs)

1-4 | 5-8 | 9-12 | 13-16 | 17-20 | 21-24

Close Refresh Help

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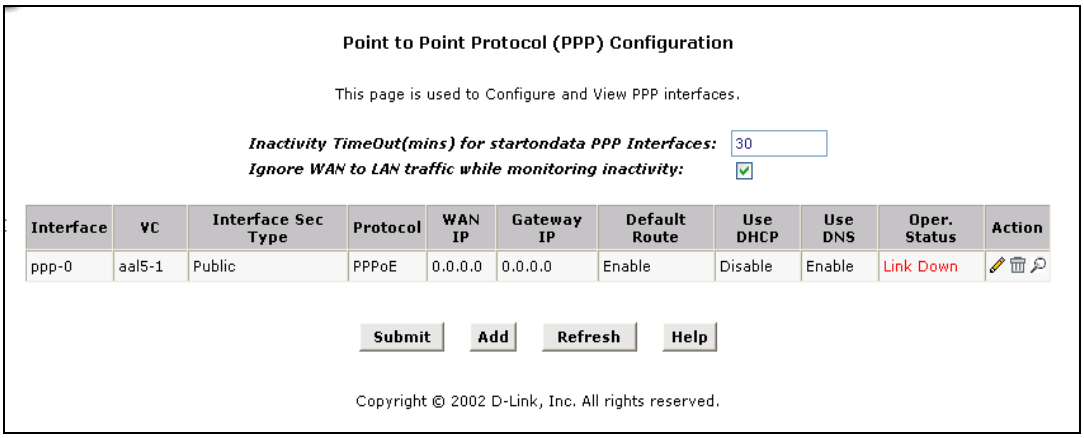
DSL Interval Statistics

PPP Configuration

PPP is configured as a group of software settings associated with the ADSL port. Although the device has only one physical ADSL port, the Modem can be defined with more than one group of PPP settings. Each group of settings is called a PPP interface and is given a name, such as *ppp-0*, *ppp-1*, etc.

To modify an existing PPP configuration, click the pencil icon ( ) for that set. When you choose to add a new set, a new menu appears. To delete an existing PPP configuration, click the trashcan ( ) for that set. To check the detail PPP configuration information, click ( ) for that set.



Point to Point Protocol (PPP) Configuration

This page is used to Configure and View PPP interfaces.

Inactivity TimeOut(mins) for startondata PPP Interfaces: 30

Ignore WAN to LAN traffic while monitoring inactivity:

Interface	VC	Interface Sec Type	Protocol	WAN IP	Gateway IP	Default Route	Use DHCP	Use DNS	Oper. Status	Action
ppp-0	aal5-1	Public	PPPoE	0.0.0.0	0.0.0.0	Enable	Disable	Enable	Link Down	

Submit Add Refresh Help

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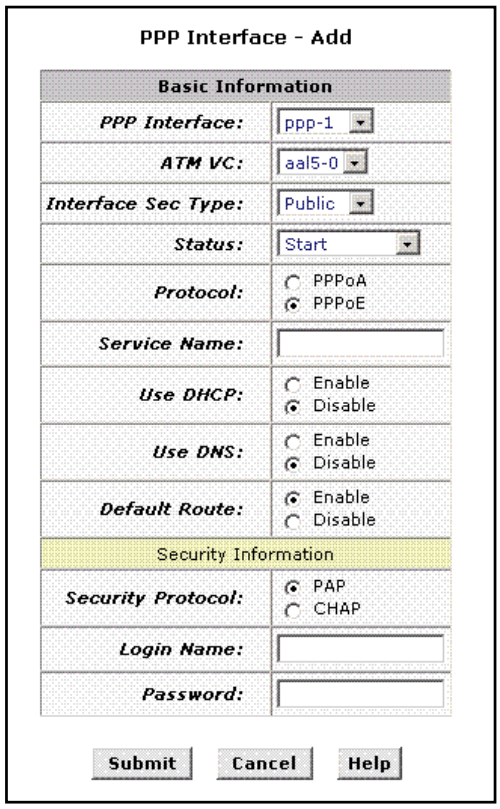
PPP Configuration

You can configure the following settings on the PPP Configuration page:

Inactivity TimeOut(mins): - The time in minutes that must elapse before a PPP connection times-out due to inactivity.

Ignore WAN to LAN traffic while monitoring activity: **-** When enabled, data traffic traveling in the incoming direction -- from the WAN port to the LAN port -- will not count as activity on the WAN port; i.e., it will not prevent the connection from being terminated if it has been otherwise inactive for the specified time.

To configure a new PPP interface click the Add button. A new menu appears.



PPP Interface - Add

The PPP Configuration table displays the following fields:

PPP Interface	The PPP interface you are configuring.
ATM VC	The Virtual Circuit over which this PPP data is sent. The VC identifies the physical path the data takes to reach your ISP.
Interface Sec Type	The type of Firewall protections that are in effect on the interface. A *public* interface connects to the Internet (PPP interfaces are typically public). Packets received on a public interface are subject to the most restrictive set of firewall protections defined in the software. A *private* interface connects to your LAN, such as the Ethernet interface. Packets received on a private interface are subject to a less restrictive set of protections, because they originate within the network. The term *DMZ* (de-militarized zone), in Internet networking terms, refers to computers that are available for both public and in-network accesses (such as a company's public Web server).
Protocol	The type of PPP protocol used. Your ISP may use PPP-over-Ethernet (PPoE) or PPP-over-ATM (PPoA).
Service Name	This feature is available with PPoE interfaces but not with PPoA interfaces. The name of the ISP service you are using with this PPP connection. ISPs may offer different types of services (for example, for online gaming or business communications), each requiring a different login and other connection properties.
Use DHCP	When set to *Enable*, the device will acquire additional IP information from the ISP's DHCP server. The PPP connection itself acquires the device's IP address, mask, DNS address, and default gateway address.

Use DNS	When set to *Enable*, the DNS address learned through the PPP connection will be distributed to clients of the device's DHCP server. This option is useful only when the Modem is configured to act as a DHCP Server for your LAN. When set to *Disable*, LAN hosts will use the DNS address(es) pre-configured in the DHCP pool.
Default Route	Indicates whether the Modem should use the IP address assigned to this connection as its default route.
Security Protocol	Protocol used to confirm the identity of the subscriber.
Login Name	The name you use to log in to your ISP each time this PPP connection is established.
Login Password	The password you use to log in to your ISP each time this PPP connection is established.

Click the Submit button to save the settings in temporary memory. When you are done making changes to the configuration settings, open the **Commit & Reboot** menu and click the Commit button to save your changes to permanent memory.

EOA Configuration

Ethernet-over-ATM (EOA) is a commonly used protocol for data transfer between Ethernet LANs and wide area networks that use the ATM protocol. Telecommunications industry networks often use the ATM in the within the their primary infrastructure or backbone. Network service providers that sell DSL services often use the EOA protocol for data transfer with their customers' DSL Modems.

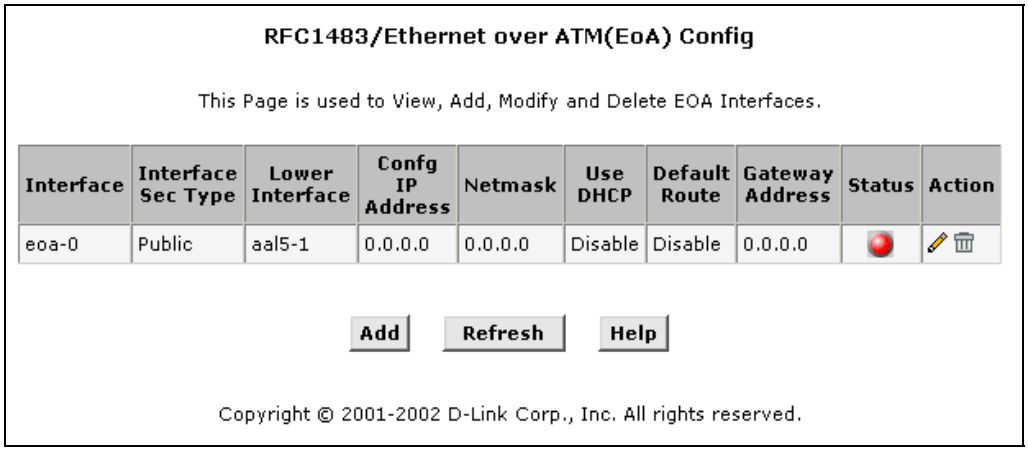
EOA is implemented to create a bridged connection between a DSL Modem and the ISP. In a bridged connection, data is shared between the ISP's network and their customer's as if the networks were on the same physical LAN. Bridged connections do not use the IP protocol. EOA can also be configured to provide a routed connection with the ISP, which uses the IP protocol to exchange data.

This section describes how to configure an Ethernet-over-ATM interface on the Modem, if one is needed to communicate with your ISP.

Before creating an EOA interface or modifying the default settings, contact your ISP to determine which type of protocol they use.

 IMPORTANT	*Your ISP may use a protocol other than EOA for communication with the Modem, such as the point-to-point protocol (PPP). One type of PPP, named PPP over Ethernet (PPPoE), actually works "on top" of the EOA protocol. The other type, PPP over ATM (PPPoA), does not. However, if your ISP uses either type of PPP, you **do not** need to separately create an EOA interface. If your service provider has given you PPP software for installation on your computer, follow the instructions given to you by your ISP and do not change the EOA settings.*

To view your current EOA configuration, log into the Configuration Manager, click the EoA button in the Bridging folder, the EOA Configuration page appears:

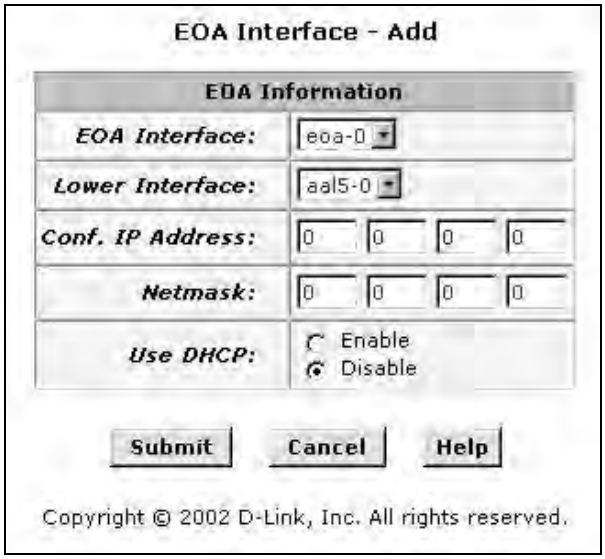


EOA Configuration

The EoA Configuration table displays the following fields:

EoA Interface	The EoA interface you are configuring.
Interface Sec Type	The type of Firewall protections that are in effect on the interface. A *public* interface connects to the Internet (PPP interfaces are typically public). Packets received on a public interface are subject to the most restrictive set of firewall protections defined in the software. A *private* interface connects to your LAN, such as the Ethernet interface. Packets received on a private interface are subject to a less restrictive set of protections, because they originate within the network. The term *DMZ* (de-militarized zone), in Internet networking terms, refers to computers that are available for both public and in-network accesses (such as a company's public Web server).
Lower Interface	The name of the lower-level interfaces on which EoA interface will operate. The low-level interface names are pre-configured in the software and identify the type of traffic that can be supported, such as data or voice. Internet data services typically use an AAL5-type interface. If you are adding a new VCC Interface, choose the AAL5 set you want to define from the pull-down menu (Add menu only).
Conf. IP Address	The IP address you want to assign to the interface.
Netmask	The netmask you want to assign to the interface.
Use DHCP	When set to *Enable*, the device will acquire additional IP information from the ISP's DHCP server. The PPP connection itself acquires the device's IP address, mask, DNS address, and default gateway address.
Default Route	Indicates whether the Modem should use the IP address assigned to this connection as its default route.
Gateway IP Address	The external IP address that the Modem communicates with via the EoA interface to gain access to the Internet. This is typically an ISP server.

To define EOA settings for a new virtual connection, click the Add button. To modify an existing EOA setting, click the pencil icon ( ) for that set. When you choose to add a new set or modify an existing set, a new menu appears (see below). To delete an existing AAL5 setting, click the trashcan ( ) for that set.



EOA Interface – Add

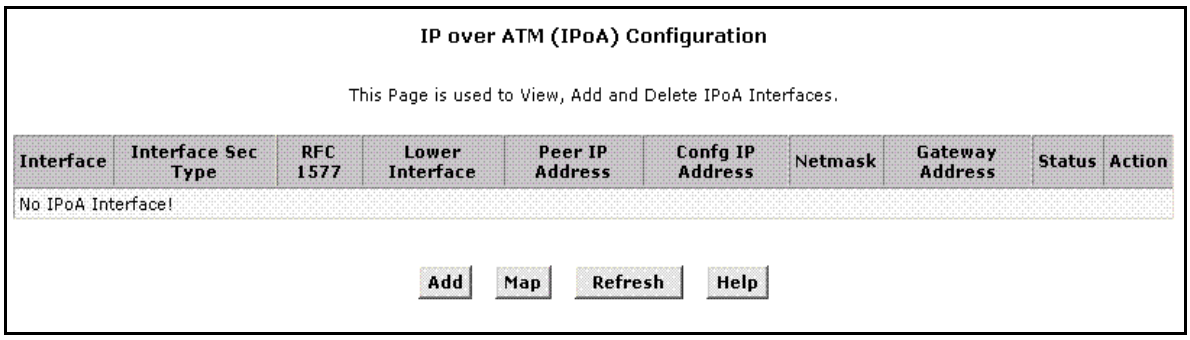
To Add or Modify AAL5 Parameters define the following:

EOA Interface	This is used (by the Modem) to identify the EOA interface. If you are adding a new EOA interface, choose the EOA set you want to define from the pull-down menu (Add menu only).
Lower Interface	The name of the lower-level interfaces on which EoA interface will operate. The low-level interface names are pre-configured in the software and identify the type of traffic that can be supported, such as data or voice. Internet data services typically use an AAL5-type interface. If you are adding a new VCC Interface, choose the AAL5 set you want to define from the pull-down menu (Add menu only).
Conf. IP Address:	The IP address assigned to the interface. If the interface will be used as a simple bridge to your ISP, then you do not need to specify IP information. If you enable DHCP for this interface, then the Configured IP address will serve only as a request to the DHCP server. The actual address that is assigned by the ISP may differ if this address is not available. Some ISPs use static IP settings that are manually assigned to each account. If your service provider instructs you to configure a Static IP Address, type in the global IP Address for this EOA interface.
Net Mask:	If you are assigned a Static IP Address and Net Mask, type in the Net Mask for this EOA interface.
Use DHCP:	When checked, this setting instructs the device to accept IP information assigned dynamically by your ISP's DHCP server. If the interface will be used for bridging with your ISP, leave this checkbox unselected. Select Enable or Disable for DHCP service.

Click the Submit button to save the settings in temporary memory. When you are done making changes to the configuration settings, open the **Commit & Reboot** menu and click the Commit button to save your changes to permanent memory.

IPoA Configuration

The IPoA table contains a row for each EOA interface currently defined on the device. The table may initially contain no entries.

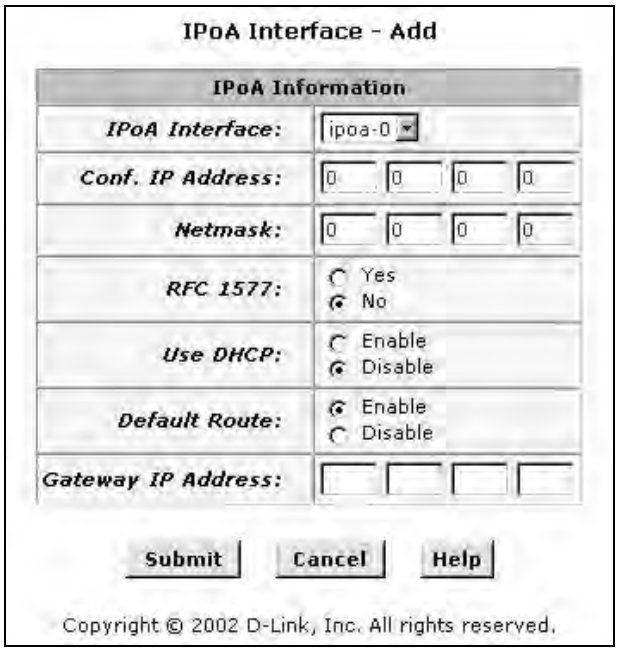


IPoA Configuration

The IPoA Configuration table displays the following fields:

IPoA Interface	The IPoA interface you are configuring.
Interface Sec Type	The type of Firewall protections that are in effect on the interface. A *public* interface connects to the Internet (PPP interfaces are typically public). Packets received on a public interface are subject to the most restrictive set of firewall protections defined in the software. A *private* interface connects to your LAN, such as the Ethernet interface. Packets received on a private interface are subject to a less restrictive set of protections, because they originate within the network. The term *DMZ* (de-militarized zone), in Internet networking terms, refers to computers that are available for both public and in-network accesses (such as a company's public Web server).
RFC 1577	Specifies whether the IPoA protocol to be used complies with the IEFT specification named "RFC 1577 - Classical IP and ARP over ATM" (contact your ISP if unsure).
Lower Interface	The name of the lower-level interfaces on which IPoA interface will operate. The low-level interface names are pre-configured in the software and identify the type of traffic that can be supported, such as data or voice. Internet data services typically use an AAL5-type interface. If you are adding a new VCC Interface, choose the AAL5 set you want to define from the pull-down menu (Add menu only).
Peer IP Address	The IP address of the remote computer you will be connecting to via the WAN interface.
Conf. IP Address	The IP address you want to assign to the interface.
Netmask	The netmask you want to assign to the interface.
Gateway IP Address	The external IP address that the Modem communicates with via the IPoA interface to gain access to the Internet. This is typically an ISP server.

To configure a new IPoA interface click the Add button. A new menu appears.
Enter information needed for the IPoA connection follwing the steps below.



Add IPoA Interface

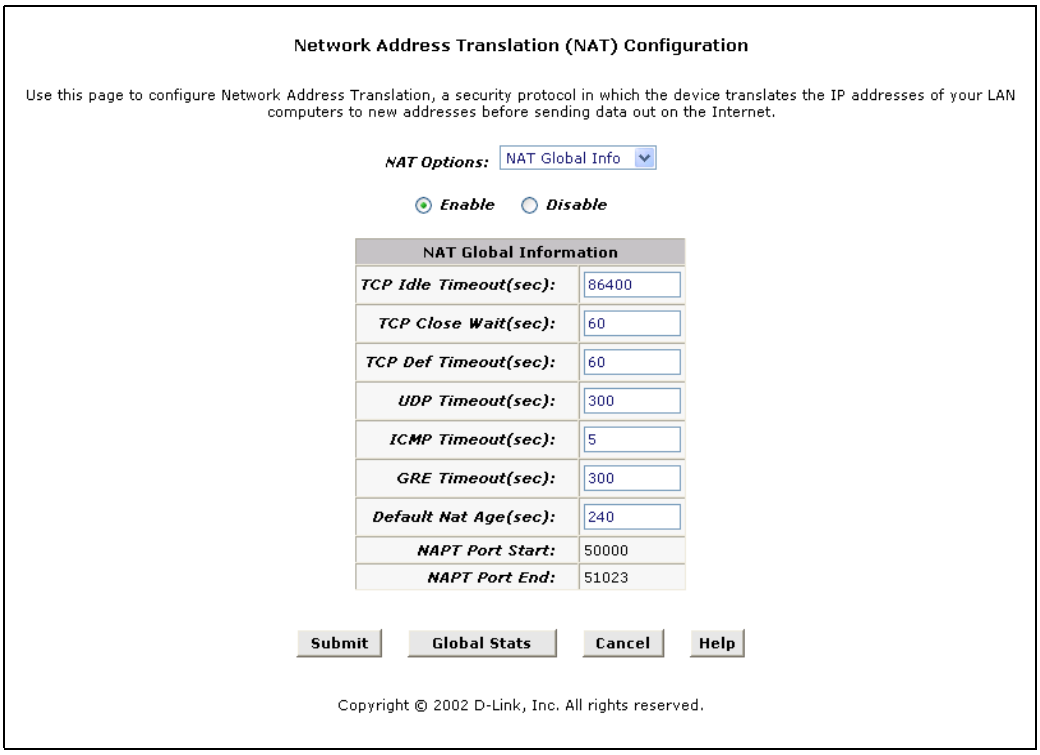
Follow these instructions to add an IPoA interface:

1. Select the next available interface name from the IPoA Interface drop-down list.
2. From the Interface Sec Type drop-down list, select the level of firewall security for the interface: Public, Private, or DMZ.
3. In the Configured IP Address and Net Mask boxes, type the address and mask that you want to assign to the IPoA interface.
4. In the RFC 1577 Click the Yes radio button if the interface complies with the IETF specification RFC 1577 and click the Add button.
5. If you enable the DHCP option (in step 6 below), then the IP address you enter here will serve as a requested address; the remote computer may assign another address if necessary.
6. If the remote your ISP provides a DHCP server, you can click the Enable radio button in the Use DHCP field to have the IP address dynamically assigned from the server.
7. If you want to enable the IP Unnumber function, you can click the Enable radio button.
8. If you want the IPoA interface to serve as the default route for your LAN, click the Enable radio button in the Default Route field.
9. In the Gateway IP Address field, enter the address of the Internet computer to contact to gain initial access to the Internet.
10. Click the Submit button. A confirmation page will display to confirm your changes.
11. Click the Close to return to the IPoA page and view the new interface in the table.
12. Display the Admin tab, and click **Save & Reboot** in the task bar.
13. Click the **Save** button to save your changes to permanent memory.

NAT

Network Address Translation is a method for disguising the private IP addresses you use on your LAN as the public IP address you use on the Internet. You define NAT rules that specify exactly how and when to translate between public and private IP addresses.

NAT is enabled by default. You can enable or disable NAT by selecting the *Enable* or *Disable* option in the configuration menu and submitting the settings.



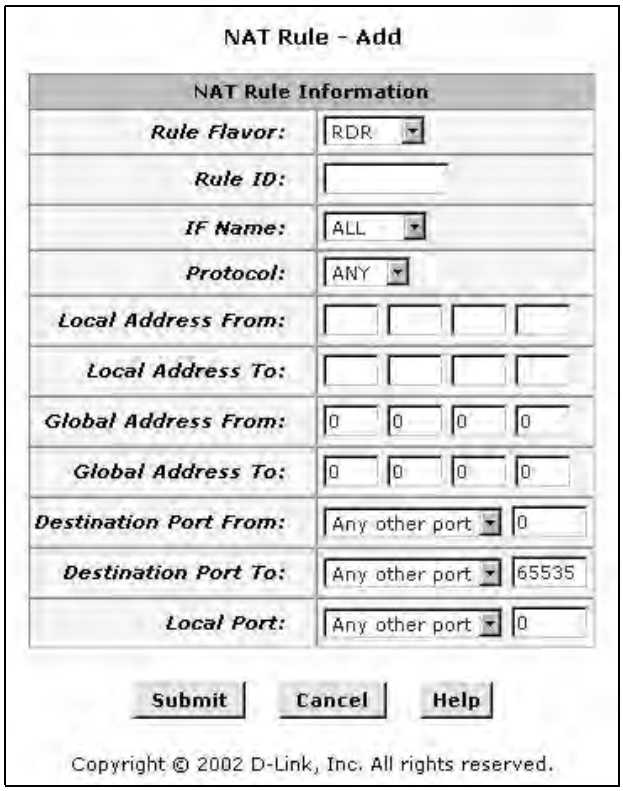
NAT Configuration

Information displayed in the NAT Configuration is summarized below:

TCP Idle Timeout(sec) **TCP Close Wait(sec)** **TCP Def Timeout(sec)**	When two computers communicate via the Internet, a TCP-based communication session is created between them to control the exchange of data packets. The TCP session can be in viewed as being in one of three states, depending on the types of packets being transferred: the **establishing state**, where the connection is being set up, the **active state**, where the connection is being used to transfer data, and the **closing state**, in which the connection is being shut down. When a NAT rule is in effect on a TCP session in the active state, the session will timeout if no packets are received for the time specified in *TCP Idle Timeout*. When in the closing state, the session will timeout if no packets are received for the time specified in *TCP Close Wait*. When in the establishing state, the session will timeout if no packets are received for the time specified in *TCP Def Timeout*.
UDP Timeout(sec)	Same as TCP Idle Timeout, but for UDP-based communication sessions.
ICMP Timeout(sec)	Same as TCP Idle Timeout, but for ICMP-based communication sessions.
GRE Timeout(sec)	Same as TCP Idle Timeout, but for GRE-based communication sessions.
Default Nat Age(sec)	Same as TCP Idle Timeout, but for GRE-based communication sessions.
NAPT Port Start/End	When an NAPT rule is defined, the source ports will be translated to sequential numbers in this range.

NAT Rule Entry

To view the NAT Rule setting menu or the NAT Translations entries, select the option from the **NAT Options:** drop-down menu. To configure NAT Rules, select the *NAT Rule Entry* option and click the Add button. A new window is displayed:



Add NAT Rule

From the **Rule Flavor** drop-down list, select *Basic, Filter, NAPT, BIMAP, RDR* or *PASS*. The page redisplays with only the fields that are appropriate for the chosen NAT flavor.

Enter information appropriate to the NAT flavor. The information in the various menus is summarized in the table below.

Rule ID	The Rule ID determines the order in which rules are invoked (the lowest numbered rule is invoked first, and so on). In some cases, two or more rules may be defined to act on the same set of IP addresses. Be sure to assign the Rule ID so that the higher priority rules are invoked before lower-priority rules. It is recommended that you select rule IDs as multiples of 5 or 10 so that, in the future, you can insert a rule between two existing rules. Once a data packet matches a rule, the data is acted upon according to that rule and is not subjected to higher-numbered rules.
IF Name	Typically, NAT rules are used for communication between your LAN and the Internet. Because the device uses the WAN interface (which may be named *ppp-0*, *eoa-0*, or *ipoa-0*) to connect your LAN to your ISP, it is the usual IF Name selection.
Protocol	This selection specifies which type of Internet communication will be subject to this translation rule. You can select ALL if the rule applies to all data. Or, select TCP, UDP, ICMP, or a number from 1-255 that represents the IANA-specified protocol number.
Local Address From	Type the starting IP of the range of private address you want to be translated. You can specify that data from all LAN addresses should be translated by typing 0 (zero) in each From field and 255 in each To field. Or, type the same address in both fields if the rule only applies to one LAN computer.

Local Address To	Type the ending IP of the range of private address you want to be translated.
Global Address From	Type the public IP address assigned to you by your ISP.
Global Address To	If you have multiple WAN interfaces, in both the Global Address From and Global Address To fields, type the IP address of the interface to which this rule applies. This rule will not be enforced for data that arrives on other PPP interfaces. If you have multiple WAN interfaces and want the rule to be enforced on a range of them, type the starting and ending IP addresses of the range. You can specify a single value by entering that value in both the From and To fields.
Destination Address (or addresses)*	Specify a range of destination addresses if you want this rule to apply only to outbound traffic to addresses in that range. If you enter only the network ID portion of the destination address, then the rule will apply to outbound traffic to all computers on network. You can specify a single value by entering that value in both the From and To fields.
Destination Port (or ports)*	Specify a range of destination ports if you want this rule to apply to any outbound traffic to the types of servers identified by that port number. For example, if you do not specify a destination address, but specify a Destination Port From/To of 21, then this translation will occur on all accesses by your LAN to all external FTP servers (that is, when one of your LAN computers communicates with an external FTP server, the source IP address in the packet headers is changed to the public address, replacing the initiator's private IP address). Common port numbers include: 21-FTP (file transfer protocol) server 25-SMTP (simple mail transfer protocol) server 80-HTTP (World Wide Web) server.

* Specify both a destination address (or range) and a destination port (or range) if you want this translation rule to apply to accesses to the specified server type at the specified IP address or network.

Bridge Configuration

The Modem can be configured to act as a bridging device between your LAN and your ISP. Bridges are devices that enable two or more networks to communicate as if they are two segments of the same physical LAN. This section describes how to configure the Modem to operate as a bridge.

 IMPORTANT	*Before changing the bridge configuration, check with your ISP to determine the type of connection used to exchange data with their client's DSL Modems (such as Ethernet bridging).*

A bridge is a device used to connect two or more networks. A bridge device is able to learn the unique manufacturer-assigned hardware identifier (MAC Address) of each computer or device on either or both networks to which it is connected. It learns that some of the MAC addresses represent computers attached via one of the device's interfaces and other MACs represent computers connected via other interfaces. For example, the MAC addresses of your home computers are learned through (or associated with) the Ethernet port, and the MACs of your ISP's computers are attached via the WAN (DSL) port. It stores the MAC addresses and the interface associated with each MAC in its *bridge forwarding table*.

When the bridge receives a data packet, it compares its destination MAC to the entries in the bridge forwarding table. When the packet's destination MAC address matches one of the entries, it forwards the packet through the interface that connects to the corresponding network. The bridge does not send the data directly to the receiving computer, but broadcasts it to the receiving network, making it available to any node on that network. On the receiving network, the packet is delivered in a form recognized by the network protocol (Ethernet for the LAN side of the Modem) and delivered to its destination.

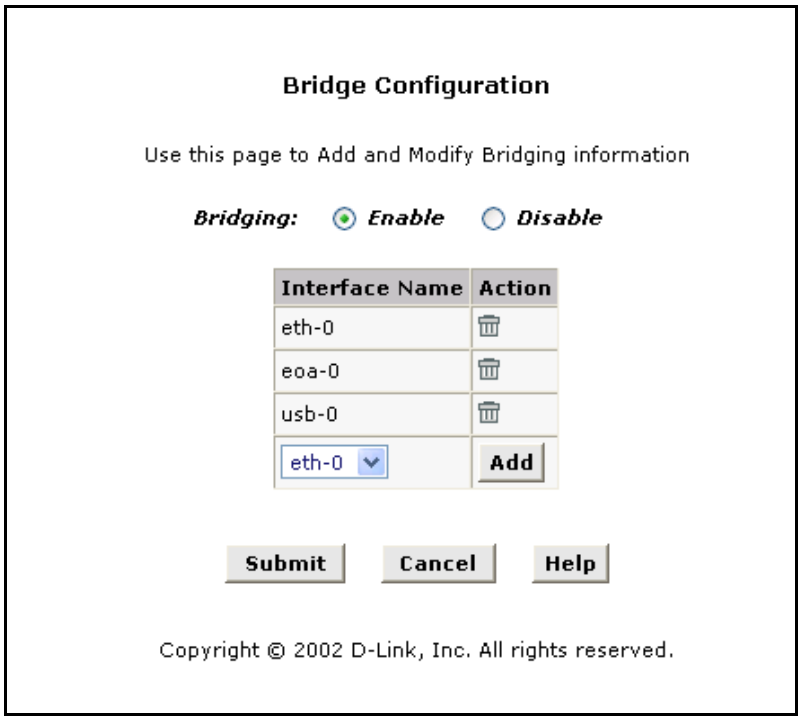
When the bridge does not recognize a packet's destination MAC address, it broadcasts the packet through all of its interfaces – to both networks.

You may need to use the device as a bridge if:

- Your ISP uses protocols that require bridging with your LAN. The device can be configured to appear as a bridge when communicating with your ISP, while continuing to provide Modem functionality for your LAN.
- Your LAN may include computers that communicate using "layer-3" protocols other than the Internet Protocol. These include IPX® and AppleTalk®. In this case, the device can be configured to act as a bridge for packets that use these protocols while continuing to serve as a Modem for IP data.

Bridging Configuration

To add or change bridge configuration settings, log into the Configuration Manager and click on the Bridging button in the Bridging folder.



Bridge Configuration Menu

To define Bridge settings for a new virtual connection, click the Add button. To delete an existing setting, click the trashcan (🗑) for that set.

To enable bridging, you simply specify the device interfaces on which you want to bridge data, and then enable bridging mode by clicking the ***Enable*** option.

Click the Submit button to save the settings in temporary memory. When you are done making changes to the configuration settings, open the **Commit & Reboot** menu and click the Commit button to save your changes to permanent memory.

Note

If you enable bridging on an interface that has already been assigned an IP address, then it is considered IP-enabled and will route (rather than bridge) IP packets received on the interface. The interface will bridge non-IP data it receives, however.

*You can determine whether the Ethernet (eth-0) and USB (usb-0) interfaces have been assigned IP addresses by displaying the IP Address Table (display the **Routing** tab, then click **IP Addr**). These interfaces will display in the table only if they have been assigned IP addresses.*

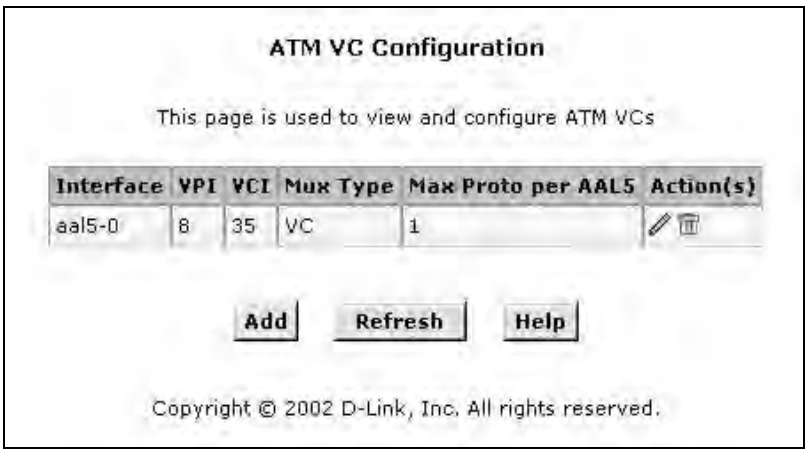
*You can check whether the eoa-0 interface has been assigned an IP address by displaying the EOA configuration table (display the **WAN** tab, and then click **EOA**). If the Config IP Address field is empty and the Use DHCP field contains the word Disable, then no IP address has been assigned.*

ATM VC Configuration

When computers access the Internet using the Modem, data is exchanged with your network service provider or ISP through a complex network of telephone switches, Internet Modems, servers, and other specialized hardware. These various devices communicate using a common language, or protocol, called *Asynchronous Transfer Mode* (ATM). On the Wide Area Network (WAN) that connects you to your ISP, the ATM protocol performs functions like those that the Ethernet protocol performs on your LAN.

This section describes how to configure the ATM *virtual channel connection* (VCC). The VC properties define the path the Modem uses to communicate with your ISP over the ATM network.

To view your current configuration, log into the Configuration Manager, and then click the ATM VCC button in the Bridging folder. The ATM VCC Configuration page displays, as shown below:

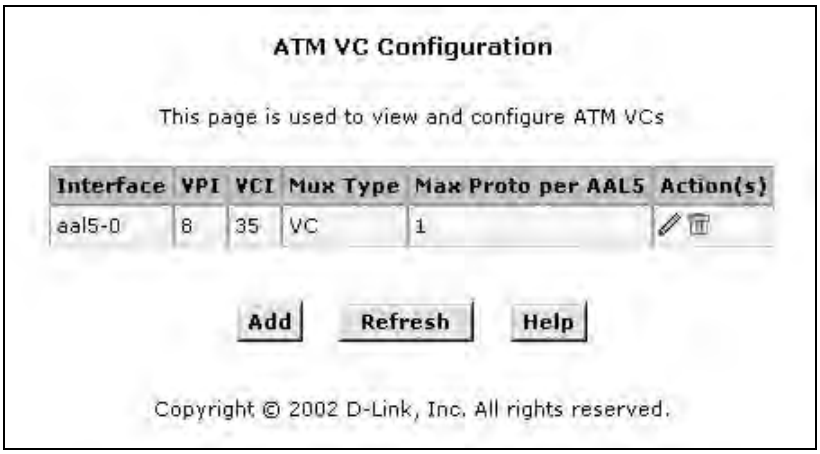


ATM VC Configuration Menu

Additional Virtual Connections

In order to use more than one PVC setting, it will be necessary to define one or two set of parameters for each virtual connection. First use the ATM VC Configuration menu to define new AAL5 settings. All additional PVCs must be added using the ATM VC menu. For connections that do not use PPPoE or PPPoA, it will also be necessary to use the EOA Configuration menu to establish Ethernet over ATM settings for the PVC adding in the ATM VC menu.

To define AAL5 settings for a new virtual connection, click the Add button. To modify an existing AAL5 setting, click the pencil icon ( ) for that set. When you choose to add a new set or modify an existing set, a new menu appears (see below). To delete an existing AAL5 setting, click the trashcan ( ) for that set.



ATM VCC – Add (or Modify) Parameters

The ATM VC add (or modify) parameters define the following :

VC Interface	The name of the lower-level interface on which this VC operates. The low-level interface names are pre-configured in the software and identify the type of traffic that can be supported, such as data or voice. Internet data services typically use an AAL5-type interface.
VPI	This setting (together with the VCI and Mux Type) identifies a unique ATM data path for communication between the Modem and service provider.
VCI	If you are adding a new VCC Interface or changing the existing VCI value, type in the new VCI value.
Mux Type	Select VC-Mux or LLC from pull-down menu.
MAX Proto per AAL5	This setting indicates the number of higher-level interfaces that the VC can support (the higher level interfaces can be PPP, EoA, or IPoA interfaces). The Modem supports up to eight however you must make arrangements your service provider for this additional service.

Add or Modify PVC

1. Choose the AAL5 set you want to define from the pull-down menu (Add menu only).
2. Select PVC from the pull-down menu.
3. Type in the new VPI and VCI values for a new VC Interface or changing the existing values.
4. Select VC-Mux or LLC from pull-down menu.
5. Type the number of MAX Proto per AAL5. The default value of VC-Mux mode is 1 and LLC is 2.
6. Click **Submit**. A page displays to confirm your change.
7. Click **Close** to return to the System View page.
8. Click the Admin tab, and then click **Save & Reboot** in the task bar.
9. Click **Save** to save your changes to permanent memory.

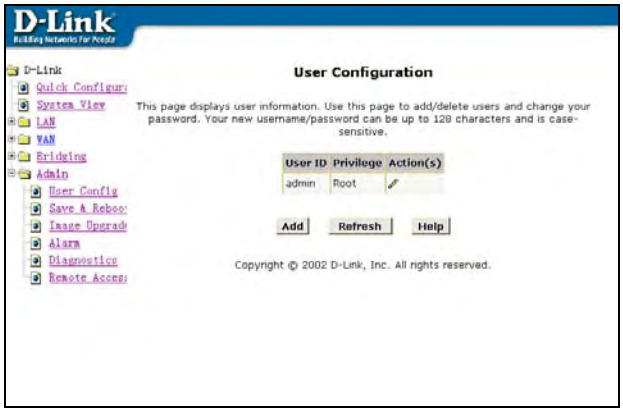
Add or Modify SVC

1. Choose the AAL5 set you want to define from the pull-down menu (Add menu only).
2. Select SVC from the pull-down menu.
3. Select E.164 or ATM as ATM Address Type from the pull-down menu.
4. Type the ATM Address in this column. The ATM Address's length of E.164 is equal to 15 and of ATM is equal to 40.
5. Click **Submit**. A page displays to confirm your change.

6. Click the Admin tab, and then click **Save & Reboot** in the task bar.
7. Click **Save** to save your changes to permanent memory.

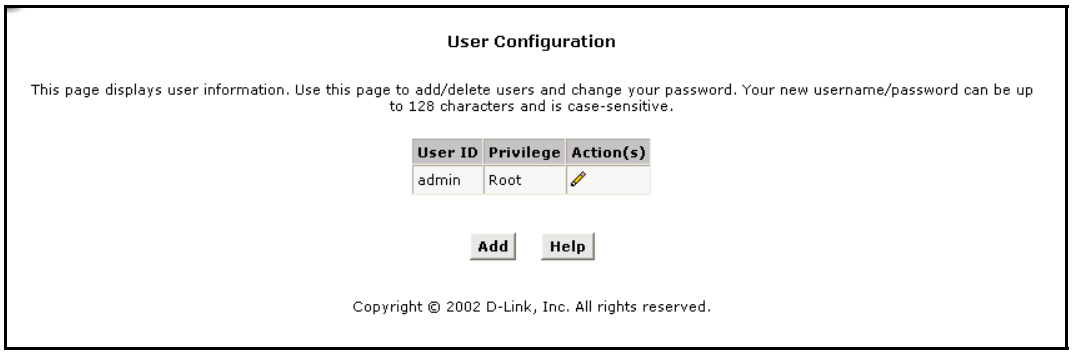
The Administration Folder

The Administration folder (labeled Admin) in the web mananger contains links to menus used for system maintenance functions including firmware upgarde and username/password configuration.



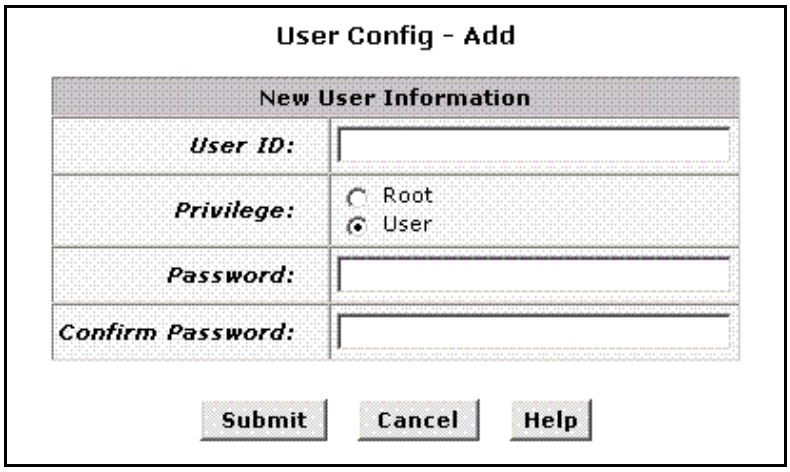
Changing the Manager Password

The first time you log into the Web Configuration Manager, use the default user ID and password (*admin* and *admin*). The system allows only one user ID and password. Access the User Configuration menu in the Admin folder.


User Configuration
This page displays user information. Use this page to add/delete users and change your password. Your new username/password can be up to 128 characters and is case-sensitive.
User ID
Privilege
Action(s)
admin
Root
Add
Help
Copyright © 2002 D-Link, Inc. All rights reserved.

Change User Password

To change user name and password used for management privileges, log into the Configuration Manager, click on the Add button and change these settings in a new window:



User Configuration – Add Menu

User ID:	This lists the current User ID (user name).
Old Password:	Type in the password used with the current User ID.
New Password:	Type in the new password.
Confirm New:	Type in the new password a second time for confirmation.

Click **Submit** to save the settings in temporary memory. When you are done making changes to the configuration settings, open the **Save & Reboot** menu and click **Save** to save your changes to permanent memory.

Save & Reboot

Whenever you use the Web Configuration Manager to change system settings, the changes are initially placed in temporary storage (called random access memory or RAM). Your changes are made effective when you submit them, but will be lost if the device is reset or turned off.

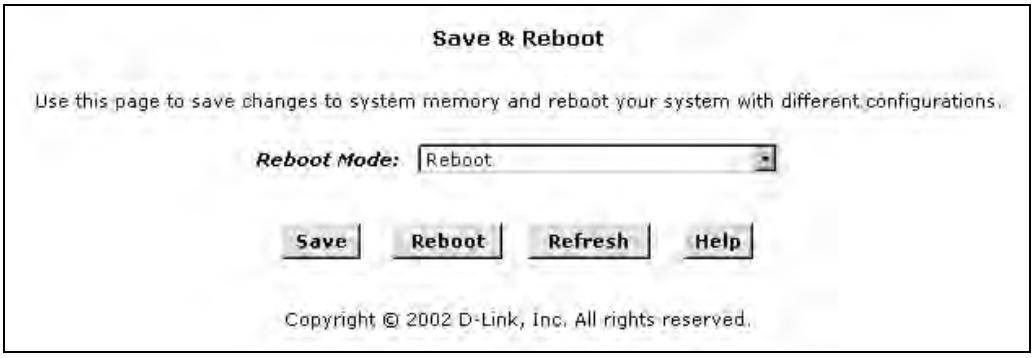
To save your changes for future use, you can use the commit function. This function saves your changes from RAM to permanent storage (called flash memory).

Note

When you Submit changes, they are activated immediately, but they are only saved until the device is reset or turned off. You must Commit the changes to saves them permanently.

Use the **Save & Reboot** menu to commit changes to permanent storage.

After you have submitted all the configuration changes you want to make for this session, click on the **Save & Reboot** button in the Admin folder to view the Commit & Reboot page.



Save and Reboot

To save current configuration settings as they have been submitted click **Save**.

(Disregard the selection in the Reboot Mode drop-down list; it does not affect the commit process.)

The changes are now saved to permanent storage (flash memory), and the previous settings are copied to backup storage so that they can be recalled if your new settings do not work properly (see the rebooting instructions below).

Reboot the Modem

To reboot the device using the Configuration Manger, display the Commit & Reboot page, select the appropriate reboot mode from the drop-down menu, and then click **Reboot**.

IMPORTANT

Do not reboot the device using the Reset button on the back panel of the Modem to activate new changes. This button resets the device settings to the manufacturer's default values. Any custom settings will be lost.

Reboot Options

Select the reboot option from the pull-down menu. The options are a described here:

Reboot	A simple reboot. This will put into effect any configuration changes that have been successfully committed to flash memory.

Image Upgrade

You can use the image upgrade feature to upload a new software image, or a specific part of the image, to the memory on the ADSL/Ethernet Modem. When the filenames have been entered, click the Upload button to commence loading the firmware file. If the upload is successful, a message informs you that is was successfully loaded and asks you to reboot the device. Go to the Reboot menu and perform and simple reboot. If the firmware does not load, an error message informs you to try the upload again. Check the filenames and attempt to upload again. If the file still will not load, reboot the device and try again.

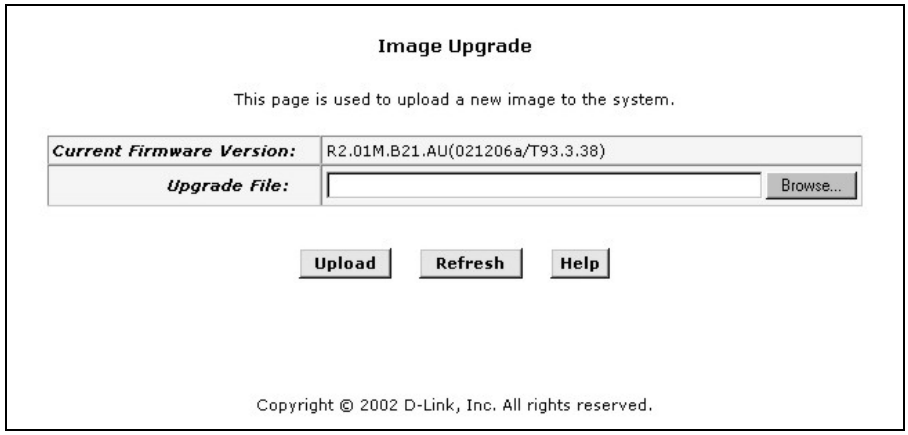


Image (Firmware) Upgrade

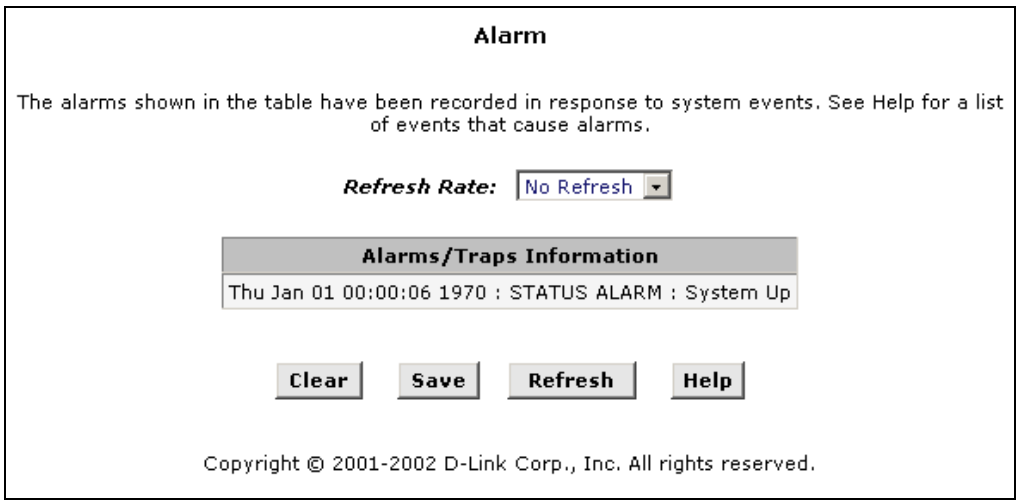
Upgrade File:	Type in the full path and file name of the firmware file to be uploaded. Alternatively you may click the Browse button to search for the file on your system.

Alarms

The Configuration Manager can be used to view alarms that occur in the system. Alarms, also called traps, are caused by a variety of system events, including connection attempts, resets, and configuration changes.

Although you will not typically need to view this information, it may be helpful in working with your ISP to troubleshoot problems you encounter with the device. (Despite their name, not all alarms indicate problems in the functioning of the system.)

To display the Alarm page, log into the Configuration Manager, click the Alarm button in the Admin folder.


Alarm
The alarms shown in the table have been recorded in response to system events. See Help for a list of events that cause alarms.
Refresh Rate:
No Refresh
Alarms/Traps Information
Thu Jan 01 00:00:06 1970 : STATUS ALARM : System Up
Clear
Save
Refresh
Help
Copyright © 2001-2002 D-Link Corp., Inc. All rights reserved.

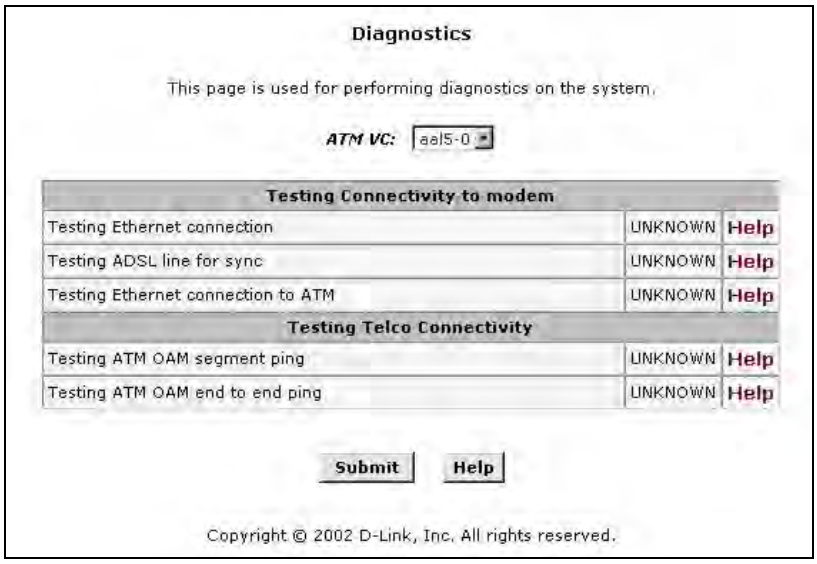
Alarm/Trap Information Page

Listed under Alarm/Trap Information are the time and date of each recorded alarm event, the type of alarm, and a brief statement indicating its cause.

To remove all entries from the list, click **Clear**. To save the system logs into your computer, click **Save**. New entries will begin accumulating and will display when you click **Refresh**.

Diagnostics

The diagnostics feature executes a series of test of your system software and hardware connections. Use this feature when working with your ISP to troubleshoot problems.



Diagnostics Table

Select the Virtual Circuit and click **Submit**. A message will appear informing you if the loop test succeeded or failed.

The diagnostics utility will run a series of test to check whether the device's connections are up and working. This takes only a few seconds. The program reports whether the test passed or failed. A test may be skipped if the program determines that no suitable interface is configured on which to run the test.

A

Technical Specifications

GENERAL		
STANDARDS:	ITU G.992.1 (G.dmt) ITU G.992.2 (G.lite)	ITU G.994.1 (G.hs) ANSI T1.413 Issue # 2
DATA TRANSFER RATE:	G.dmt full rate: Downstream up to 8 Mbps Upstream up to 640 Kbps G.lite: Downstream up to 1.5 Mbps Upstream up to 512 Kbps	
MEDIA INTERFACE EXCHANGE:	RJ-11 port ADSL telephone line connection RJ-45 port for 10/100 BASE-T Ethernet connection USB 1.1 Type B connector to host	

PHYSICAL AND ENVIRONMENTAL	
DC INPUTS: POWER ADAPTER:	120 VAC to 230 VAC 60Hz 24W 9 V AC 1.0A
POWER CONSUMPTION:	9 Watts Max.
OPERATING TEMPERATURE:	0° to 40° C (32° to 104° F)
HUMIDITY:	5 to 95% (non-condensing)
DIMENSIONS:	142 mm x 117 mm x 31 mm
WEIGHT:	360 gm
EMI:	FCC Class B, CE Class B
SAFETY:	CSA International Mark

B

Ethernet Diagnostic Utility

The DSL-302G is shipped with optional Ethernet Diagnostic Utility software that can be installed on a computer running Windows. This can be used to monitor and troubleshoot the Modem. It can also be used to change the ADSL account user name and password used for PPPoE and PPPoA connection types.

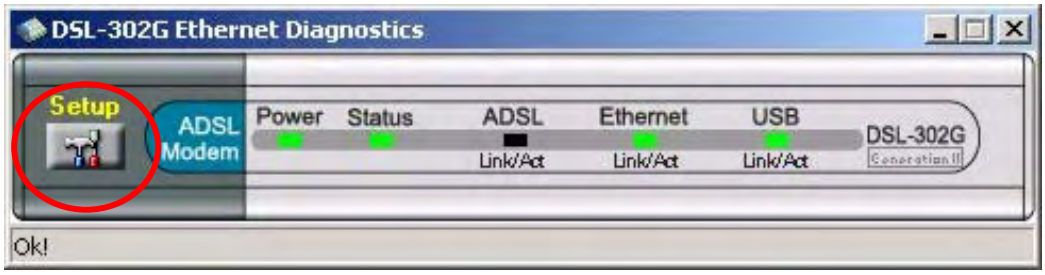
Remember that installing the Ethernet Diagnostics will change the IP settings of the Ethernet interface so it will obtain IP settings from the built-in DHCP server. It is not necessary to install this software to use the Modem.

To install the software insert the Installation CD into the CD-ROM drive of your computer and click the Install DSL-302G link on the pop-up menu. Follow the instructions as they are presented. Be sure that the Ethernet Diagnostics option is selected in the Select Components dialog box.

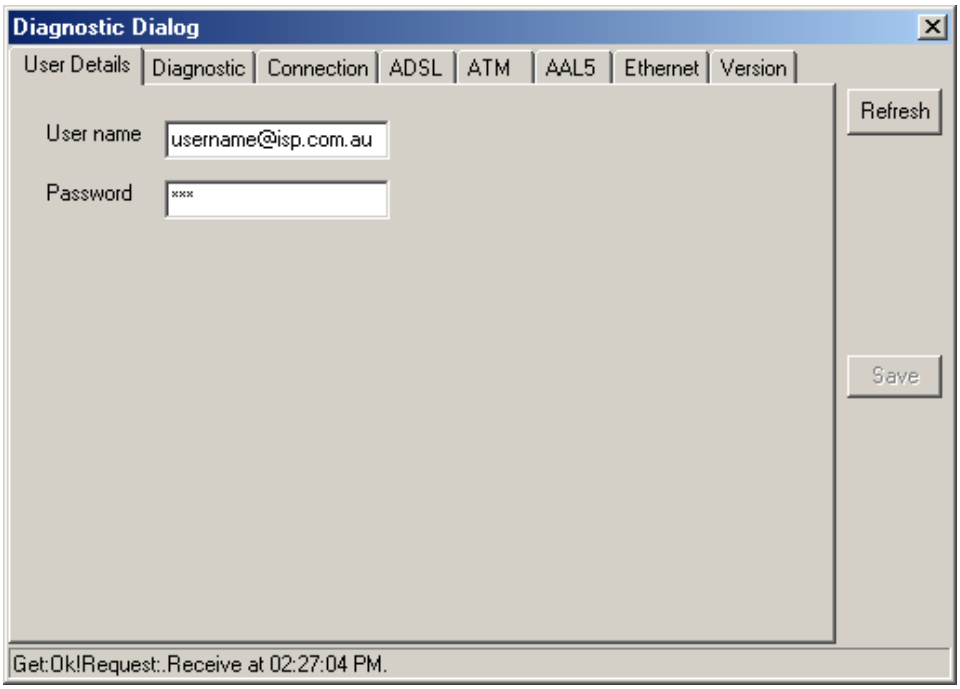
When you have installed the software and restarted your computer a new icon should appear on your desktop:

Double-click on the **DSL-302G Ethernet Diagnostics** icon. A login dialog box will ask you to enter your ADSL Account information (user name and password used for the PPP connection).

A successful login brings up the DSL302G Ethernet Diagnostics display.

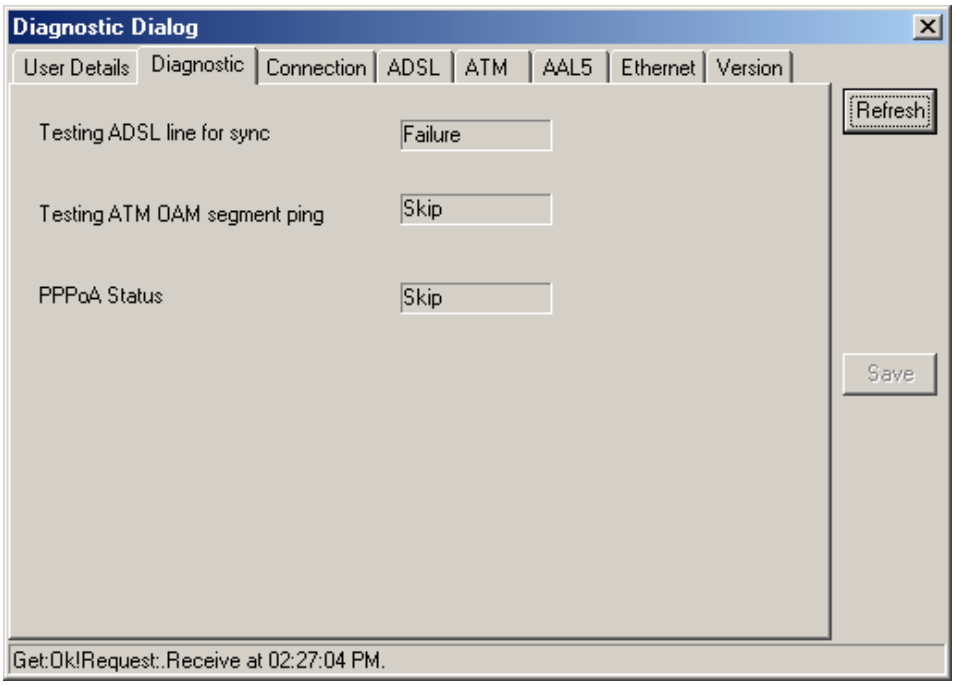


The Ethernet Diagnostics display appears on your desktop. This virtual front panel display can be used to monitor the Modem in near real time. To access the Ethernet Diagnostic Utility click the **Setup** button, a new dialog box appears:

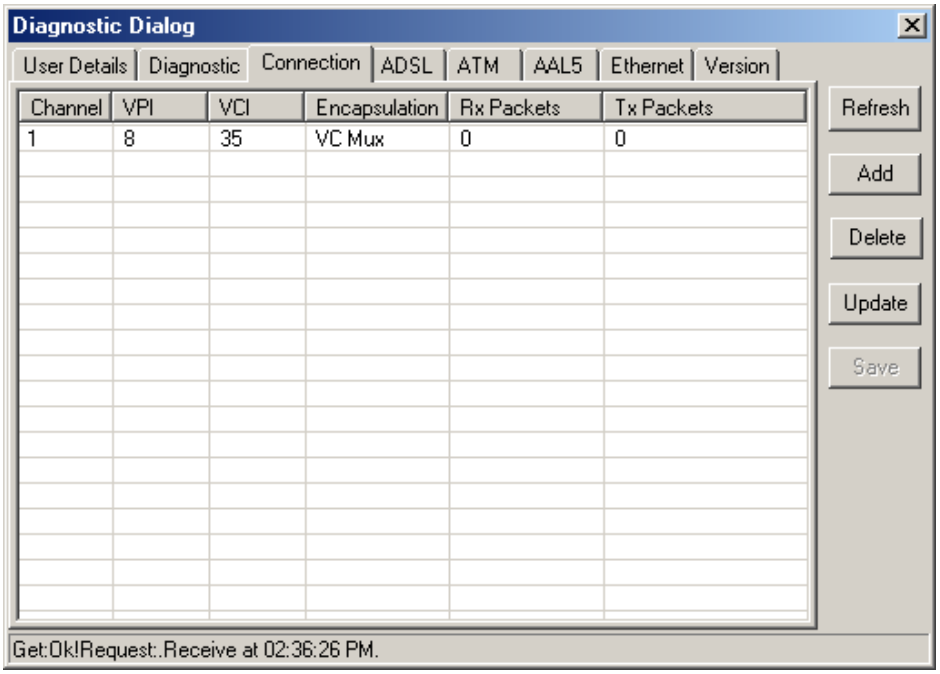


The first tab of the Diagnostic menu presented is the **User Details** tab. Here you can change your ADSL account user name and password. If you need to change this information just enter the new user name and password, click on the **Save** button. The new information will be saved and the modem will reboot itself.

The **Diagnostic** tab can be used to run a basic test for ADSL connectivity. The test is initiated automatically when the tab is displayed.

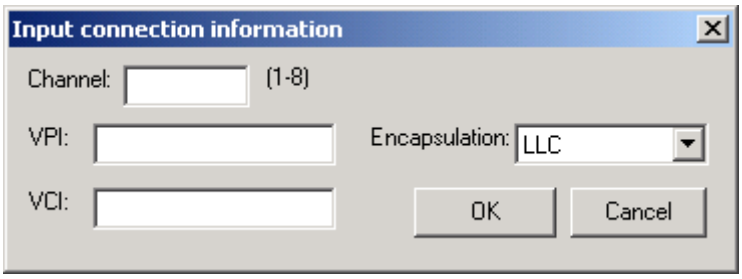


Success or failure of the ADSL connection is indicated in the first box. If the connection is established, an ATM loopback test will proceed automatically. Success or failure of the loopback test is indicated in the second box. If the ADSL connection fails, check to be sure the ADSL cable is connected firmly at both ends and verify that the Modem is configured with the correct VPI/VCI settings. Click the **Connection** tab to display the ADSL connection settings (VPI/VCI) and connection type used for the Modem.



The Connection tab displays basic connection information about the Modem. If necessary this menu can be used to change the basic connection settings. To change the VPI, VCI or Encapsulation method, select to highlight the connection (Channel) you want to change and click the **Update** button, a new dialog box is displayed. The Connection menu can also be used to configure basic connection settings for additional virtual connections.

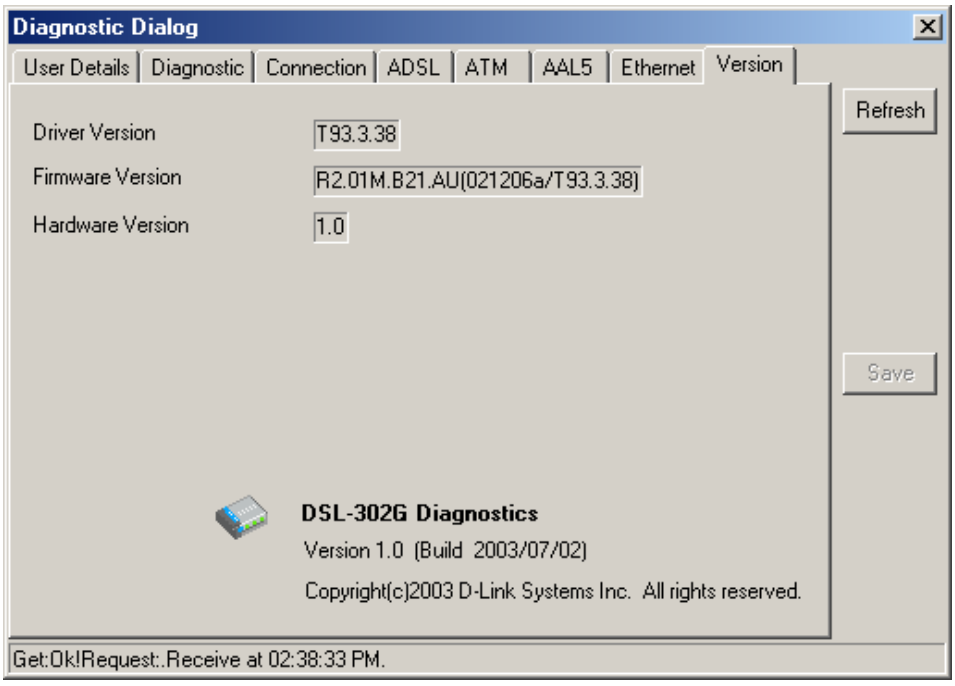
Additional virtual connections must be arranged with your ADSL service provider before they are set up. Contact your ADSL service representative for information on how to obtain additional virtual connections. To add and configure basic settings for another Channel (virtual connection), click the **Add** button.



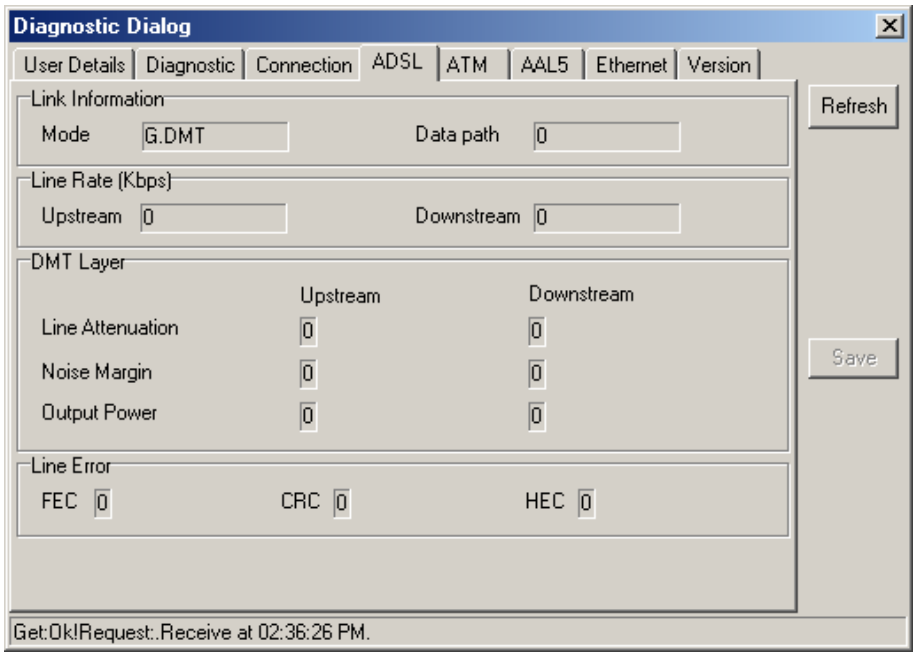
If you are updating an existing connection the Channel number will appear automatically and cannot be changed. If you are using a single connection the Channel will be number 1.

If you are adding a new virtual connection, type in a unique Channel number to identify the connection. Numbers 1 - 8 are valid identifiers used for the Channel value. Any new virtual connections must have a VPI/VCI combination that is unique to the device. Use the values assigned by your ADSL service provider. Select the Encapsulation method used for the connection and click the **OK** button to add the new Channel to the list. The remaining configuration for the new channel must be completed using the web-based management software. See **Additional Virtual Connections** on page 49 for more information.

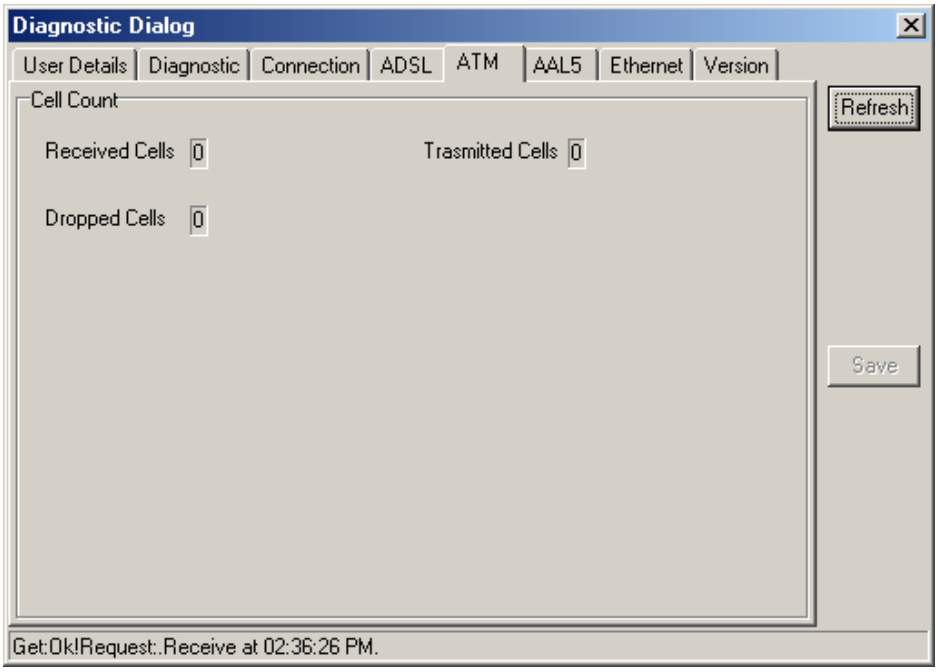
To check the firmware version, the USB driver version or the hardware version of the Modem you are currently using click the **Version** tab.



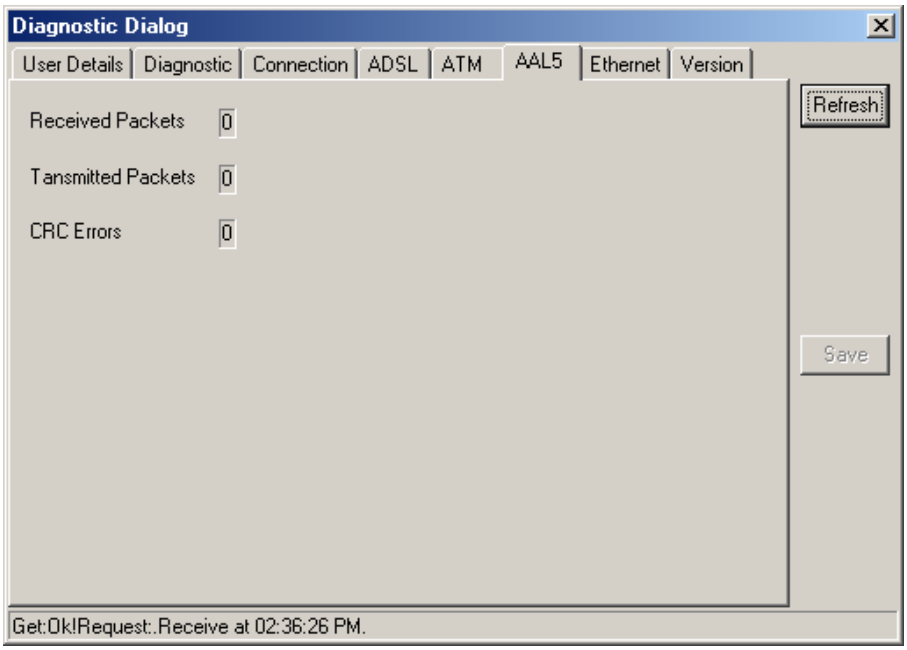
Basic performance information including the ADSL mode or "flavor" used by the device is listed in the **ADSL** menu tab.



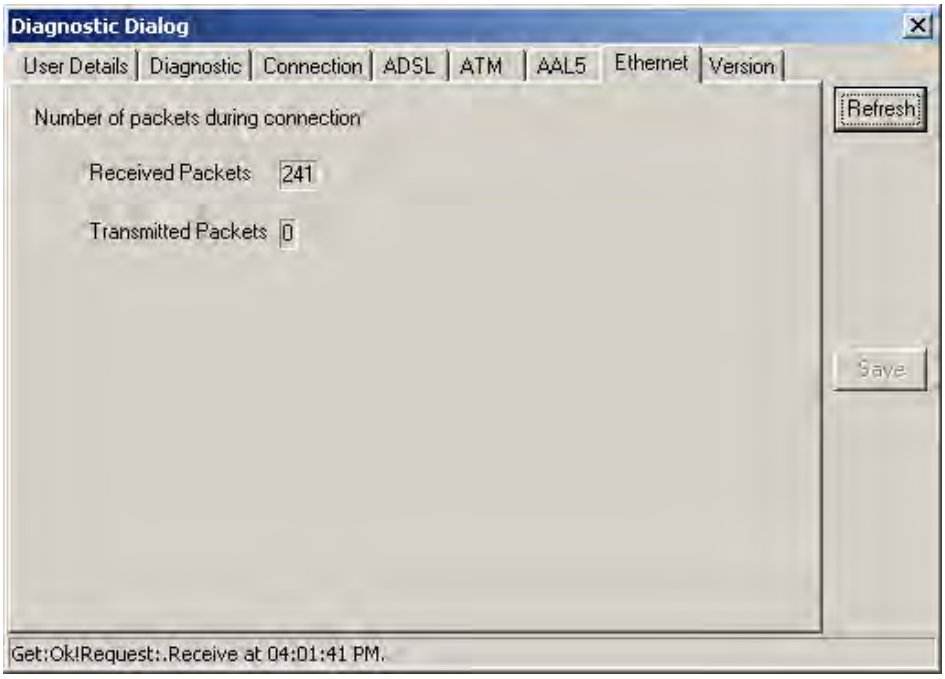
The **ATM** menu tab displays ATM cell data.



The **AAL5** menu tab displays still more performance data pertinent to AAL5 (ATM Adaptive Layer 5) transport.



The **Ethernet** menu tab displays data packet statistics for the Ethernet interface.



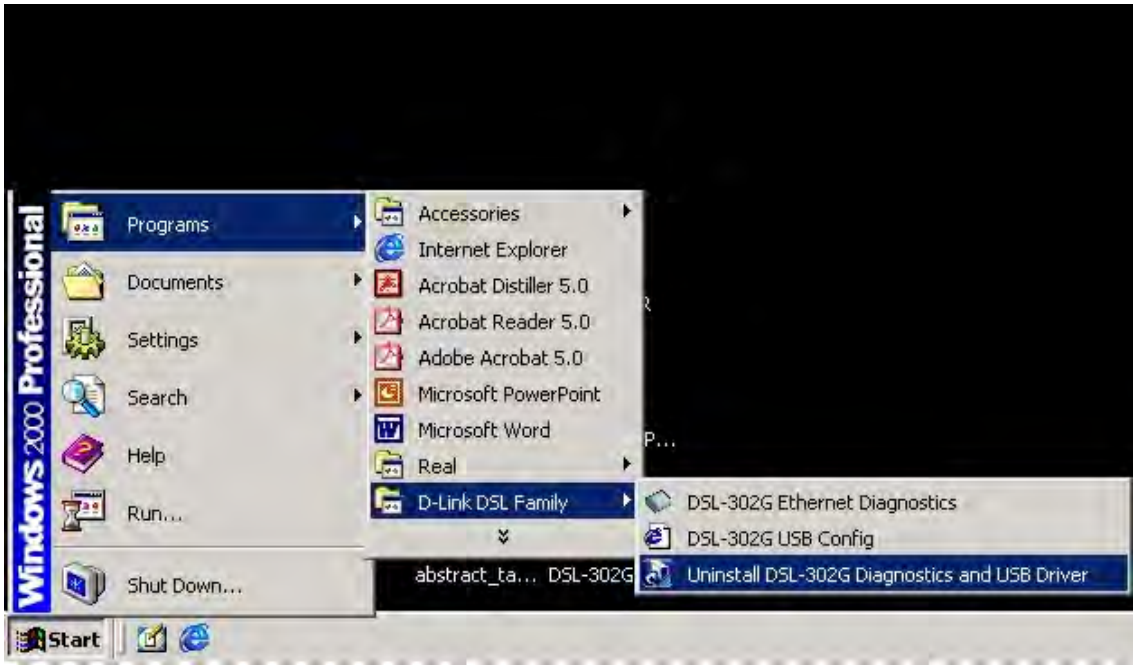
C

Uninstalling the Modem Software

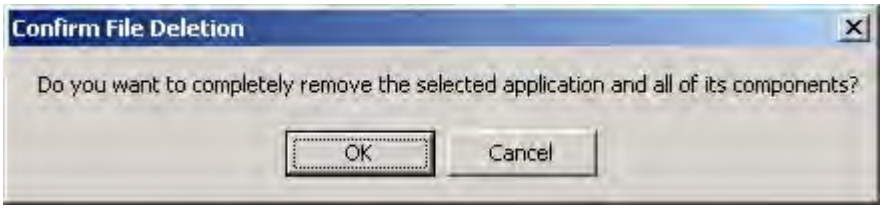
To remove the Ethernet Diagnostic Utility and the USB driver from a computer in which this software has been installed it is best to use the associated Uninstall feature located in the D-Link DSL Family Folder. This folder also contains the Ethernet Diagnostic Utility and is located in your Programs folder (unless you specified a different location during the installation of the DSL-302G software).

To launch the automatic uninstall program that will remove the DSL-302G Ethernet Diagnostics Utility and the USB device driver:

1. From the **Start** menu, go to **Programs** and find the **D-Link DSL Family** folder. Double-click on **Uninstall DSL302G Diagnostic and USB Driver**.



2. Follow the instructions as they appear in the dialog boxes that appear on your desktop. First you are asked to confirm that you want to remove the software. Click **OK** to proceed.



3. It will take a few seconds to remove the various components of the application from your system. After the software has been deleted you will need to restart your computer to fully remove the application.

InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed D-Link DSL-302G Ethernet Diagnostics and USB Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

4. You may restart the computer immediately or choose to restart later by selecting the appropriate option. Click the **Finish** button to complete the removal.

D

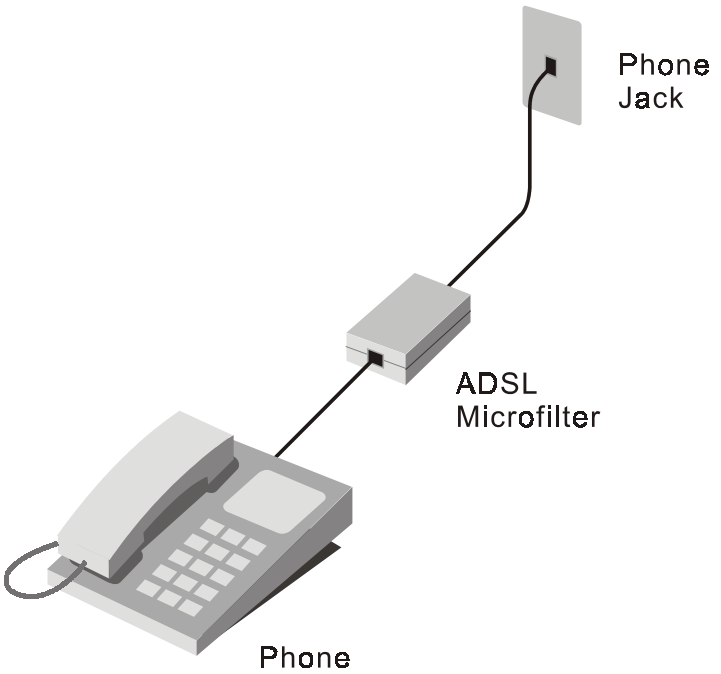
Low Pass Filters

Most ADSL clients will be required to install a simple device that prevents the ADSL line from interfering with regular telephone services. These devices are low pass filters and are variously referred to as in-line filters, micro-filters, line splitters or split line filters. They are easy to install and use standard telephone connectors and cable.

For some ADSL clients, a telecommunications technician will be sent to the client's premises to modify the telephone line, usually at the point where the telephone line enters the building. If a technician has divided or split your telephone line into two separate lines - one for regular telephone service and the other for ADSL – then you do not need to use any type of filter device. Follow the instructions given to you by your ADSL service provider, ISP or telephone company about where and how you should connect the Modem to the ADSL line.

In-Line Filters

Two common styles of low pass filters are shown in this section, the first is an in-line filter and is illustrated in Figure 16 below. In-line filters are easy-to-install, in-line devices, which attach to the telephone cable between the telephone and wall jack.



In-line Filter Installation

Note

Do not install an in-line filter between the Modem and the telephone jack. In-line filters are only intended for use with regular telephones, Fax machines and other regular telephone devices

Split Line Filter

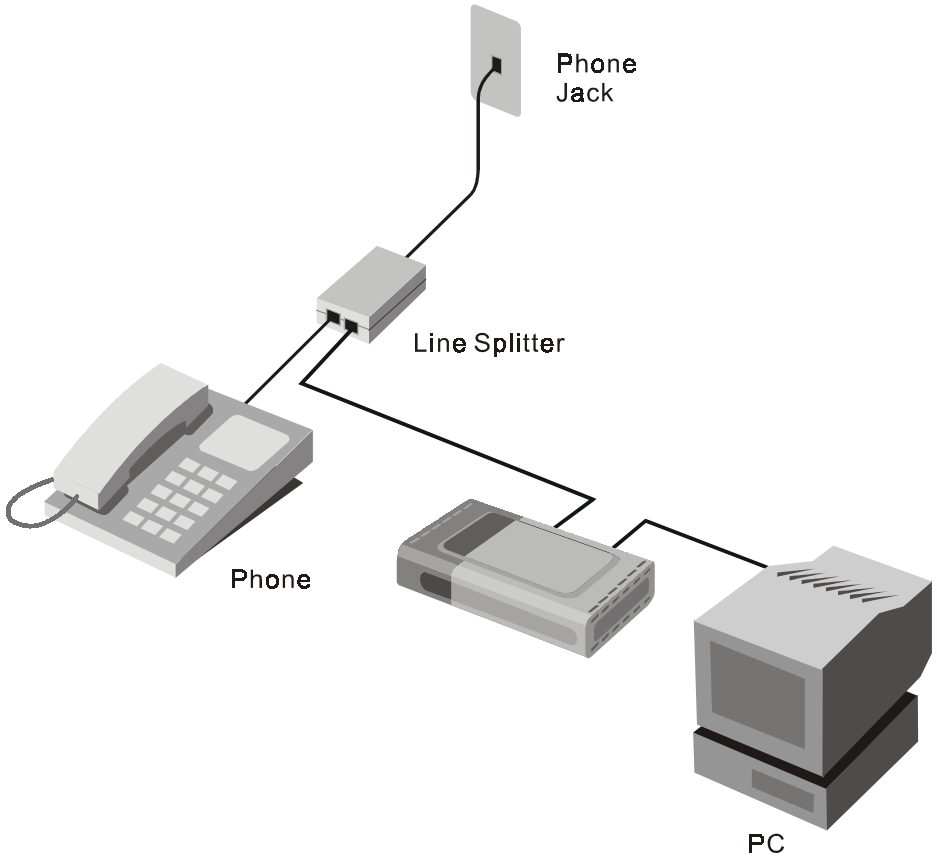
If you are instructed to use a split line style filter you must install the device between the Modem and the phone jack. Use standard telephone cable with standard RJ-11 connectors. The splitter has three RJ-11 ports used to connect to the wall jack, the Modem and if desired, a telephone or telephone device. The connection ports are typically labeled as follows:

Line - This port connects to the wall jack.

ADSL – This port connects to the Modem.

Phone – This port connects to a telephone or other telephone device.

The diagram below illustrates the proper use of the split line style filter.



Split Line Filter Installation

Mac OSX 10.1 & 10.2 USB Driver
Version 1.0.0000E

Mac OSX 10.1 & 10.2 USB Driver

Introduction ..... **Error! Bookmark not defined.**
MAC OSX Operating System Version Compatibility ..... **Error! Bookmark not defined.**
Installation and Connection Establishment Instructions ..... **Error! Bookmark not defined.**
USB Installation (One time only) ..... **Error! Bookmark not defined.**
Ethernet Installation ..... **Error! Bookmark not defined.**
Uninstall Instructions ..... **Error! Bookmark not defined.**
Driver and 'USB Modem' uninstall ..... **Error! Bookmark not defined.**
Removal of previously created Network Interfaces ..... **Error! Bookmark not defined.**

Introduction

The Drivers are version 1.0.0000E

The Installer is version 1.0.2

MAC OSX Operating System Version Compatibility

This driver was developed for Operation under Mac OSX 10.1 and Mac OSX 10.2

This driver **CANNOT** be used with MacOS9 or earlier.

This driver **CANNOT** be used with Mac OSX version 10.0

Unless otherwise noted, these drivers were not developed for any particular version of Mac OSX 10.1 or OSX 10.2 and should work with all available versions. However, please note that the vast majority of the testing of this package has been done with the latest versions available during the latest weeks of its development: **Mac OSX 10.1.5 & Mac OSX 10.2**

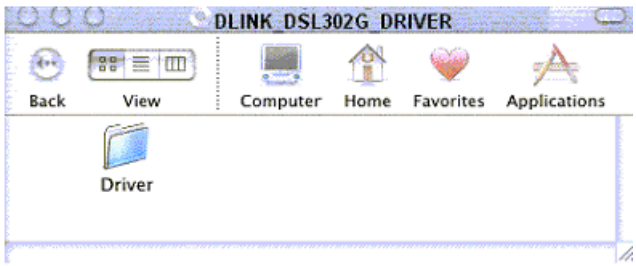
Installation and Connection Establishment Instructions

Make sure you have Administrator rights for your account, as you will need to authenticate as such.

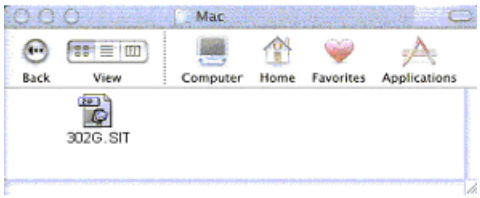
Unlike Mac OS9, Mac OSX allows several network adapters to be "bound" to TCP/IP at the same time. In order to avoid routing problems, the following instructions assume your computer is stand alone and NOT connected to any network (Ethernet, Airport, etc) at the time of the Installation of the D-Link DSL-302G. Make sure you disconnect any existing network connection (i.e.: unplug the Ethernet cable) and restart the computer before starting the installation

USB Installation (One time only)

1. Insert the Driver CD into your Mac CD-ROM, then you can find the icon "DLINK_DSL302G_DRIVER" on your Mac Desktop.



2. Double click on the icon "DLINK_DSL302G_DRIVER", then on the folder "Driver", there is the folder "Mac".

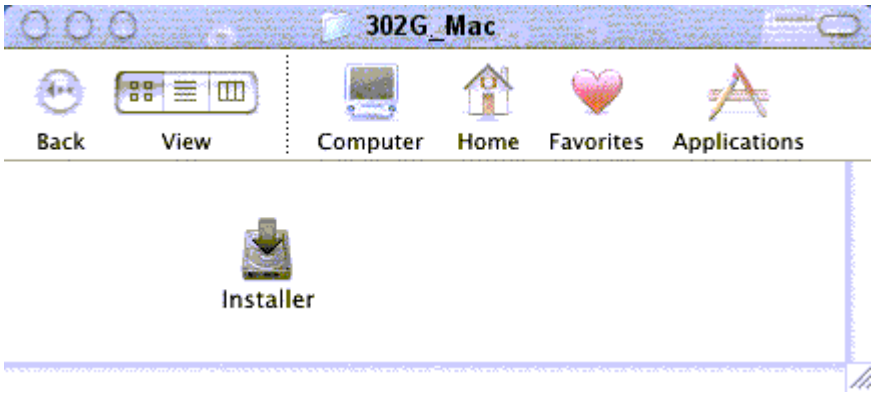


3. Double click on the icon "Mac" there is the file "302G.sit".
4. Dragging the file "302G.sit" to your Mac Desktop.

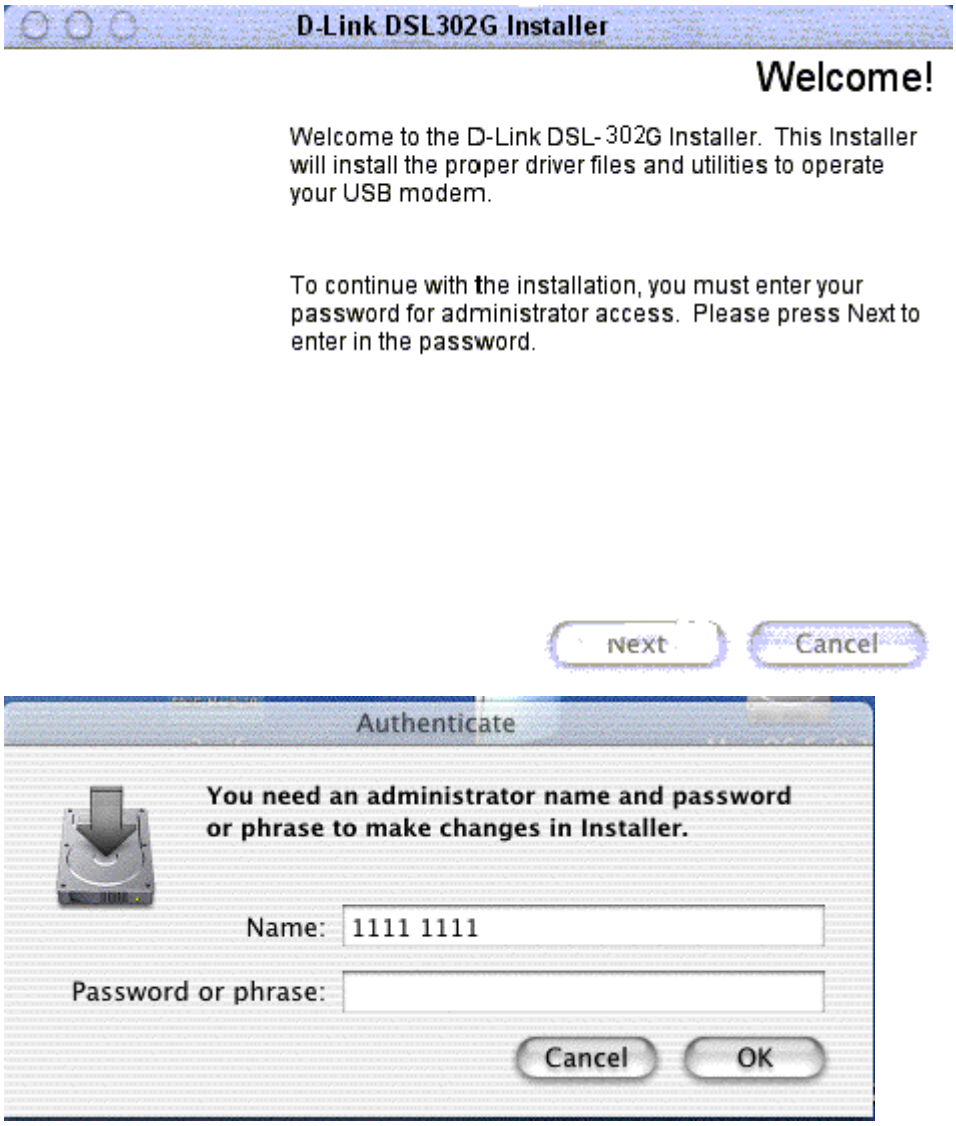
5. Double click on the icon "302G.sit".

ps. There seems to be a problem with OSX 10.1 and/or Alladin Stuff-It expander that sometimes causes the Window contents not to be refreshed automatically after decompression. If you do not see the Installer icon at this point drag the file "302G.sit" to the Trash (this is an intermediate decompression file which is not needed later in the installation anyway) and this will force OSX to refresh the Window contents causing the "Installer" icon to appear.

6. After that, you will find the folder "302G_Mac" on your Mac Desktop.



7. Double click on the icon "302G_Mac",there is the file "Installer"
8. Double click the "Installer" icon (i.e.: /302G_Mac/Installer).


D-Link DSL302G Installer
Welcome!
Welcome to the D-Link DSL-302G Installer. This Installer will install the proper driver files and utilities to operate your USB modem.
To continue with the installation, you must enter your password for administrator access. Please press Next to enter in the password.
Next
Cancel
Authenticate
You need an administrator name and password or phrase to make changes in Installer.
Name:
1111 1111
Password or phrase:
Cancel
OK

9. At the Welcome screen click "Next", then enter your username and password to Authenticate as a user with Administrative rights and click OK.

D-Link DSL-302G Installer
License Agreement
Please review the license agreement below and click Accept if you agree with the license agreement or Cancel if you do not agree and wish to cancel the installation:
This is D-Link 302G software.
Copyright (C) 2002 D-Link.
Accept
Cancel

10. A License Agreement will show up, click "Accept" to continue.

D-Link DSL-302G Installer
Finished
The installation is now complete. Before using your DSL-302G, you must restart your computer. Would you like to restart now or later?
Restart now
Restart later
Finish
Cancel

11. The installation will proceed to copy all necessary files and prompt for a Restart. Select "Restart Now" and Click "Finish". If you selected "Restart Later" make sure to **RESTART THE COMPUTER before you attempt to use the driver, the installation will not be complete until restarting the system.**

12. If you have not done so yet, connect the DSL-302G USB Modem to the computer now using the proper USB Device cable. Connect the DSL line to the USB Modem as well.

13. Open the System Preferences and select the Network Preferences Pane.

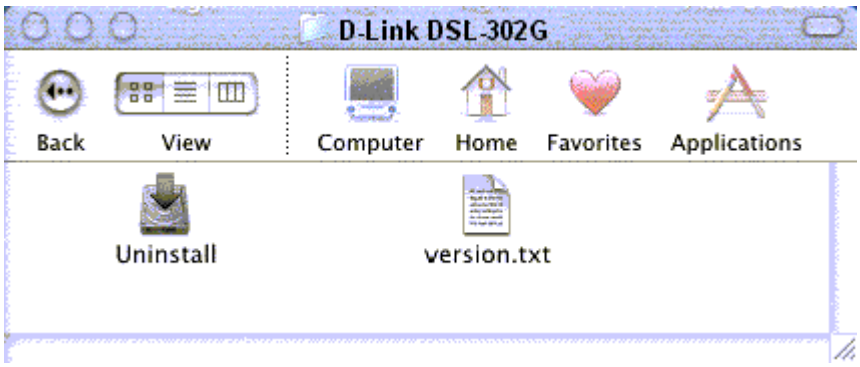
14. A window should pop up indicating "New Port Detected". It will be a port of type "Ethernet Adaptor" and its interface name "en<N>" will be displayed as well. (i.e.: "Ethernet Adaptor en1"). Click "OK".
15. From the "Show" pull down menu, select the new port (i.e.: "Ethernet Adaptor en1").
16. Select the "TCP/IP" tab. From "Configure" menu, select "Using DHCP" or the way you would like to obtain an IP address.
17. Click "Apply Now". Wait for a minute.
18. Close the System Preferences application. The installation of DSL-302G is done and now you need to configure your ADSL account username and password into the DSL-302G.
19. Open the Internet Explorer. Enter the address http://10.1.1.2/ and a window will pop up asking for User ID and Password. This is the user ID to get into the DSL-302G (this is not your ADSL account details). Enter "admin" (without the quote) into both User ID and Password boxes, and click "OK".
20. Under "Quick Configuration" page, from "Refresh Rate" pull down menu, select "No Refresh".
21. Enter your ADSL account details into "Username" (eg. user@isp.com.au) and "Password" boxes.
22. Click "Save & Reboot". Wait for a minute or so.
23. You might need to refresh the "Quick Configuration" page. Select "Refresh Rate" back to "5 Seconds" and you could check your "Connection Status" at the bottom of the "Quick Configuration" page. If it shows "Connected", you are now connected to the Internet; else check all the cable connections, username and password again (steps 20 to 22). If you have further enquiry, please contact your ADSL service provider.

Ethernet Installation

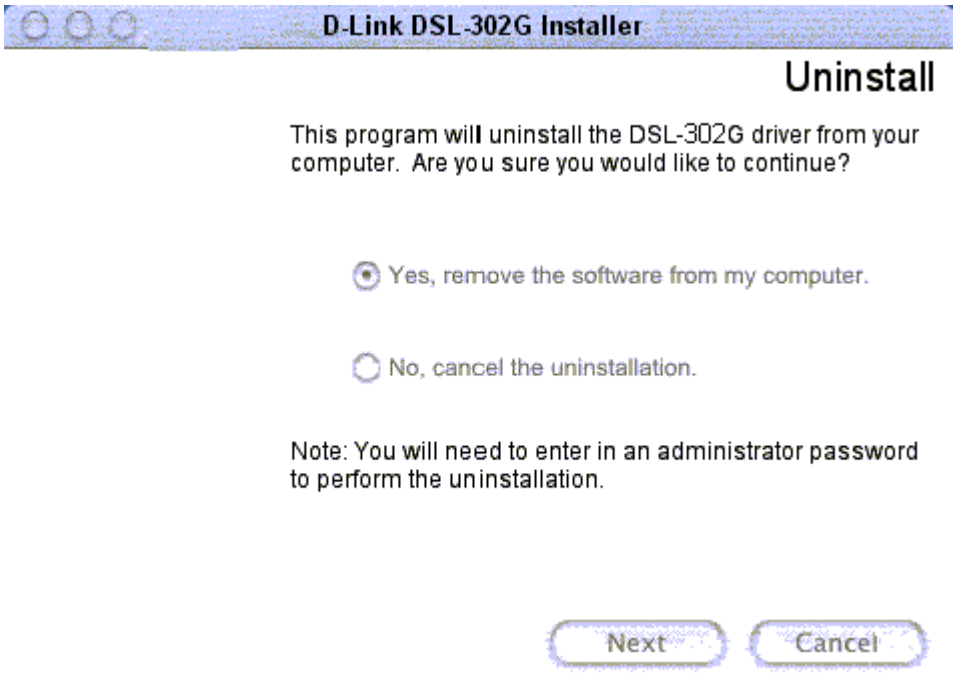
1. If you prefer to use Ethernet connection (instead of USB), you could simply connect up the Ethernet and DSL lines (not USB) to the DSL-302 modem.
2. In Network Preferences, on "Show" menu, select "Built-in Ethernet".
3. Under "TCP/IP" tab, on "Configure" menu, select "Using DHCP".
4. Click "Apply Now". Wait for a minute.
5. Open the Internet Explorer. Enter the address http://10.1.1.1/ and a window will pop up asking for User ID and Password. Enter "admin" (without the quote) into both User ID and Password boxes, and click "OK".
6. Follow the steps 20 to 23 given above.

Uninstall Instructions

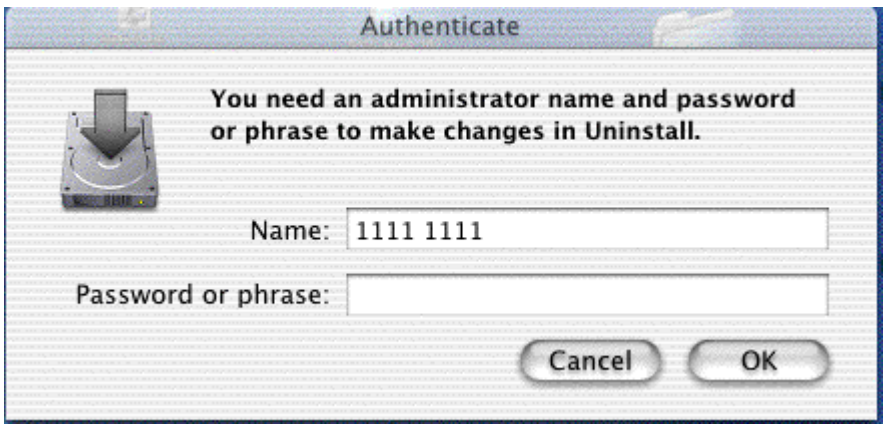
Driver and 'USB Modem' uninstall



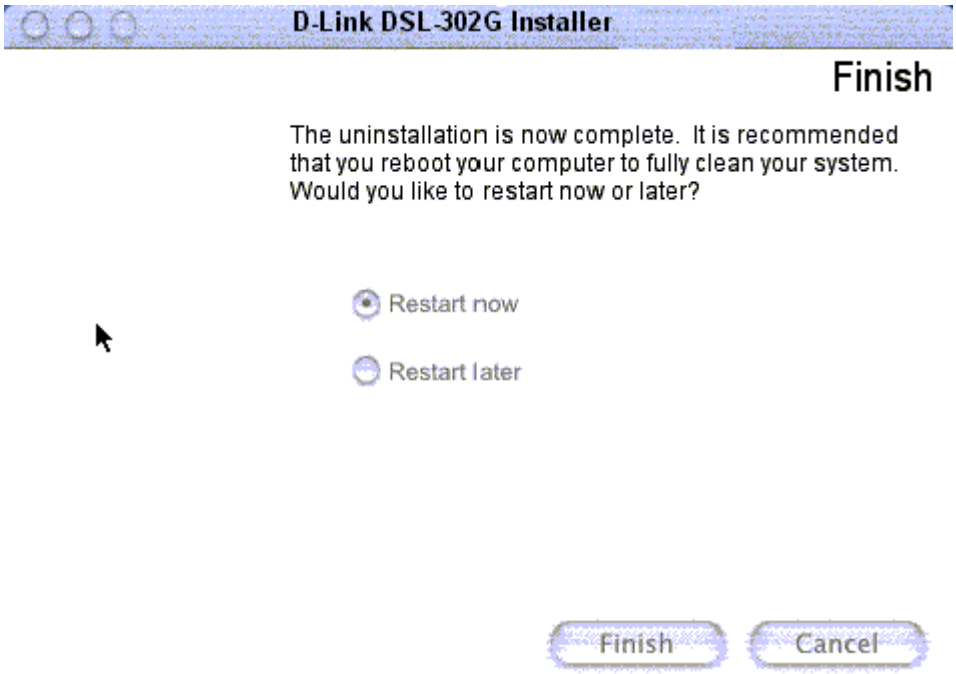
1. Run the uninstaller application located at "/Applications/D-Link DSL-302G /Uninstall".


D-Link DSL-302G Installer
Uninstall
This program will uninstall the DSL-302G driver from your computer. Are you sure you would like to continue?
Yes, remove the software from my computer.
No, cancel the uninstallation.
Note: You will need to enter in an administrator password to perform the uninstallation.
Next
Cancel

2. Select "Yes, remove the software from my computer." and click Next.



3. Authenticate entering an administrator Name & password.


D-Link DSL-302G Installer
Finish
The uninstallation is now complete. It is recommended that you reboot your computer to fully clean your system. Would you like to restart now or later?
Restart now
Restart later
Finish
Cancel

4. Select "Restart Now" and click "Finish". If you select "Restart later" please remember to do it later, the Uninstallation will not be complete until then.

Removal of previously created Network Interfaces

1. Unplug the USB cable from the USB Modem.
2. Open the System Preferences and select the Network Preference Pane.
3. From the "Show" pull down menu select "Active Network Ports". Highlight the interface you created during driver configuration (i.e., "Ethernet Adaptor en1") . Click "Delete" and confirm deletion in the following pop up dialogue.
4. OSX may not allow you to completely remove the interface. If that's the case (the checkbox was removed from the Network interface but the interface itself was not deleted) you may need to Restart the system and then repeat steps 2-3 in order to completely get rid of it.
5. Close the System preferences Application completely by pressing Option-Q ("Apple" key and the 'Q' key simultaneously)

F

Mac OS 9 Driver
Version 4.00.0001E

Mac OS 9 Driver

Introduction ..... **Error! Bookmark not defined.**
MAC OS 9 Operating System Version Compatibility ..... **Error! Bookmark not defined.**
Installation and Connection Establishment Instructions ..... **Error! Bookmark not defined.**
USB Installation (One time only) ..... **Error! Bookmark not defined.**
Ethernet Installation ..... **Error! Bookmark not defined.**
Uninstall Instructions ..... **Error! Bookmark not defined.**
Driver and 'USB Modem' uninstall ..... **Error! Bookmark not defined.**

Introduction

MAC OS Package 1.00.0002Q includes:
The Installer is version 1.0.2
The Mac OSX Drivers are version 1.00.0002Q
The Mac OS9 Drivers are version 4.00.0001E

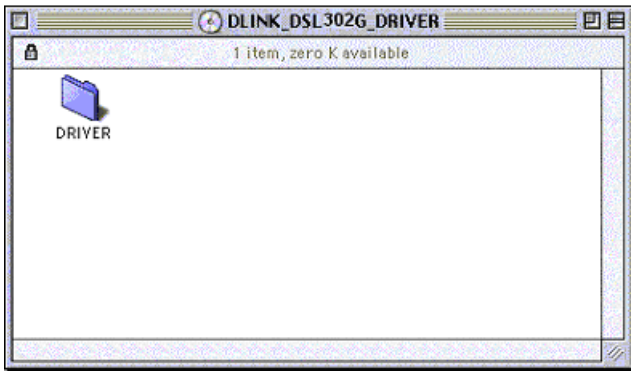
MAC OS 9 Operating System Version Compatibility

This driver was developed for Operation for Mac OS 9.x

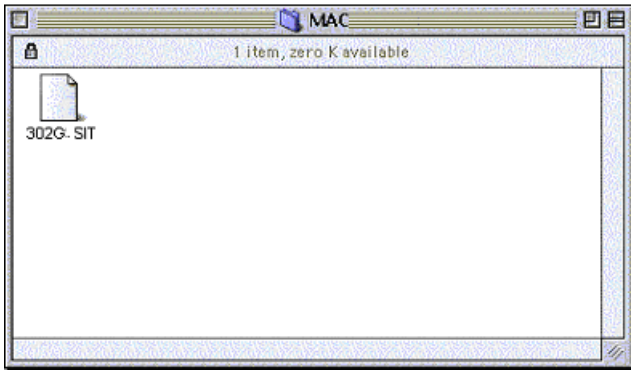
Installation and Connection Establishment Instructions

USB Installation (One time only)

24. Insert the Driver CD into your Mac CD-ROM, then you can find the Icon"DLINK_DSL302G_DRIVER" on your Mac Desktop.



25. Double click on the icon "DLINK_DSL302G_DRIVER", then on the folder "Driver", there is the folder "Mac".

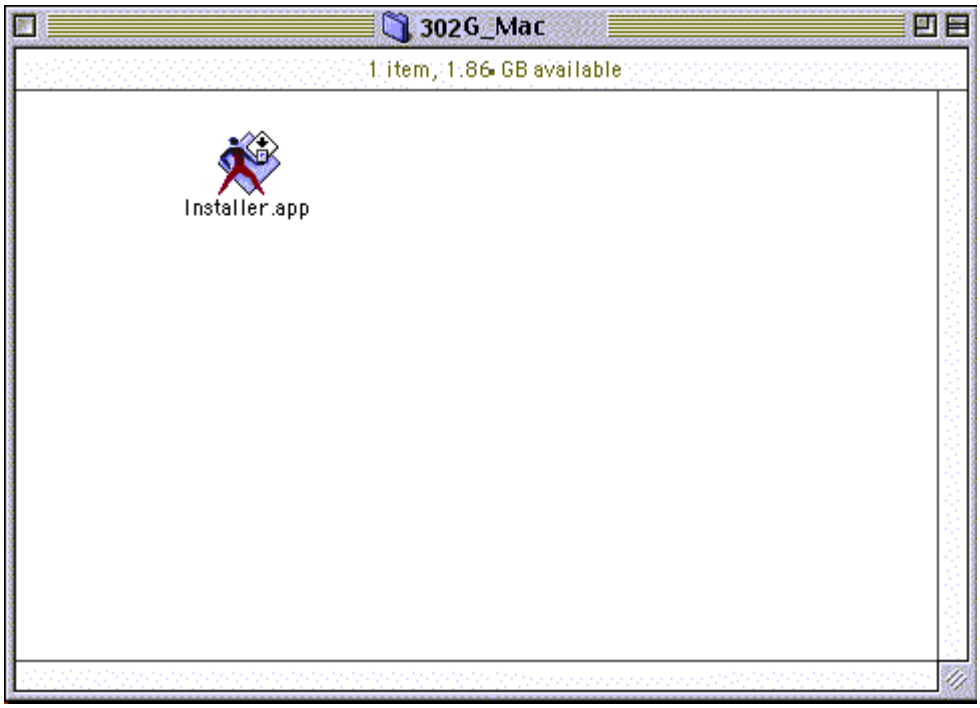


26. Double click on the icon "Mac" there is the file "302G.SIT".

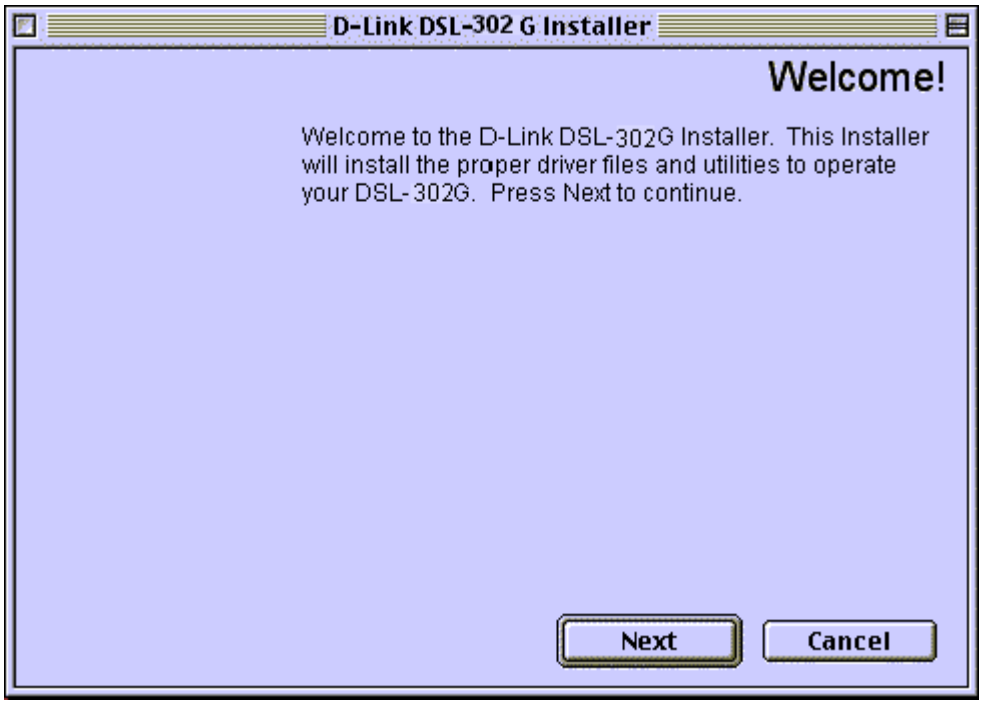
27. Dragging the file "302G.SIT" to your Mac Desktop.

28. Run the Stuffit Expander application located at "/Applications/ Internet Utilities/ Aladdin Folder/ Stuffit Expander/ Stuffit Expander" by double-clicking on it.
29. Click File/Expand on Stuffit Expander's task bar, and choose the file "302G.SIT",then click on the button "Open".

30. After that, you will find the folder "302G_Mac" on your Mac Desktop.
31. Double click on the icon "302G_Mac",there is the file "Installer.app".



32. Double click the Installer icon (i.e. Installer.app).


D-Link DSL-302 G Installer
Welcome!
Welcome to the D-Link DSL-302G Installer. This Installer will install the proper driver files and utilities to operate your DSL-302G. Press Next to continue.
Next
Cancel

33. At the Welcome screen click "Next".

D-Link DSL-302 G Installer
License Agreement
Please review the license agreement below and click Accept if you agree with the license agreement or Cancel if you do not agree and wish to cancel the installation:
This is D-Link DSL-302G software.
Copyright (C) 2002 D-Link.
Accept
Cancel

34. A License Agreement will show up, click "Accept" to continue.

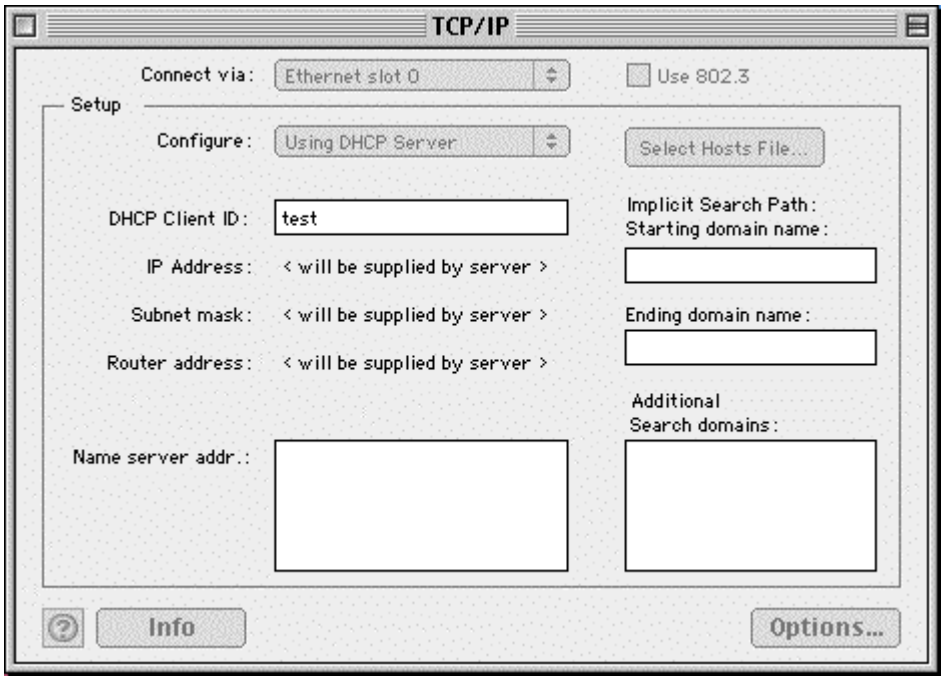
D-Link DSL-302G Installer
Finished
The installation is now complete. Before using your DSL-302G, you must restart your computer. Would you like to restart now or later?
Restart now
Restart later
Finish
Cancel

35. The installation will proceed to copy all necessary files and prompt for a Restart. Select "Restart Now" and Click "Finish". If you selected "Restart Later" make sure to **RESTART THE COMPUTER before you attempt to use the driver, the installation will not be complete until restarting the system.**

36. If you have not done so yet, connect the DSL-302G USB Modem to the computer now using the proper USB Device cable. Connect the DSL line to the USB Modem as well.

37. Open the Control Panel: TCP/IP Windows.

38. A window should pop up indicating the TCP/IP settings.



39. From the "Connect via:" pull down menu, select the new port (i.e.: "Ethernet slot 0").

40. From the "Configure:" pull down menu, select the "Using DHCP Server".

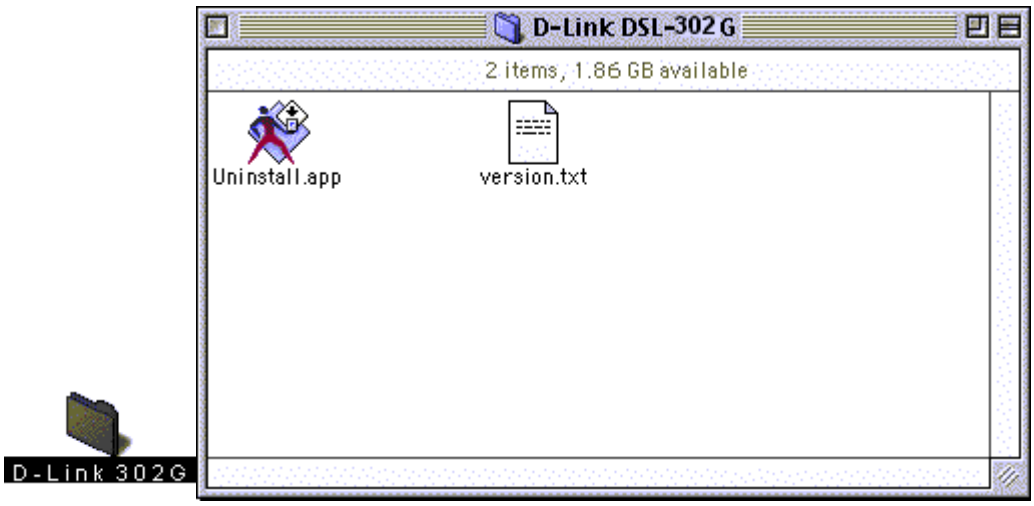
41. Close window and select "Save". The installation of DSL-302G is done and now you need to configure your ADSL account username and password into the DSL-302G.
42. Open the Internet Explorer. Enter the address http://10.1.1.2/ and a window will pop up asking for User ID and Password. This is the user ID to get into the DSL-302G (this is not your ADSL account details). Enter "admin" (without the quote) into both User ID and Password boxes, and click "OK".
43. Under "Quick Configuration" page, from "Refresh Rate" pull down menu, select "No Refresh".
44. Enter your ADSL account details into "Username" (eg. user@isp.com.au) and "Password" boxes.
45. Click "Save & Reboot". Wait for a minute or so.
46. You might need to refresh the "Quick Configuration" page. Select "Refresh Rate" back to "5 Seconds" and you could check your "Connection Status" at the bottom of the "Quick Configuration" page. If it shows "Connected", you are now connected to the Internet; else check all the cable connections, username and password again (steps 20 to 22). If you have further enquiry, please contact your ADSL service provider.

Ethernet Installation

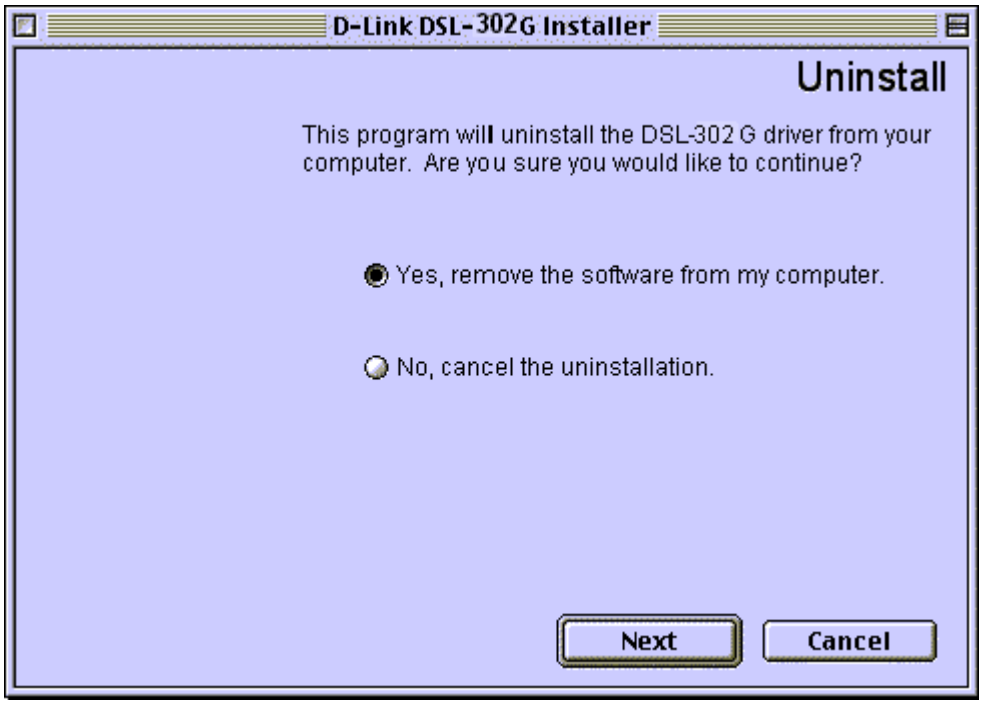
7. If you prefer to use Ethernet connection (instead of USB), you could simply connect up the Ethernet and DSL lines (not USB) to the DSL-302 modem.
8. Open the Control Panel: TCP/IP Windows. On "Connect via:" menu, select "Built-in Ethernet".
9. On "Configure:" menu, select "Using DHCP Server".
10. Close window and select "Save". Wait for a minute.
11. Open the Internet Explorer. Enter the address http://10.1.1.1/ and a window will pop up asking for User ID and Password. Enter "admin" (without the quote) into both User ID and Password boxes, and click "OK".
12. Follow the steps 20 to 23 given above.

Uninstall Instructions

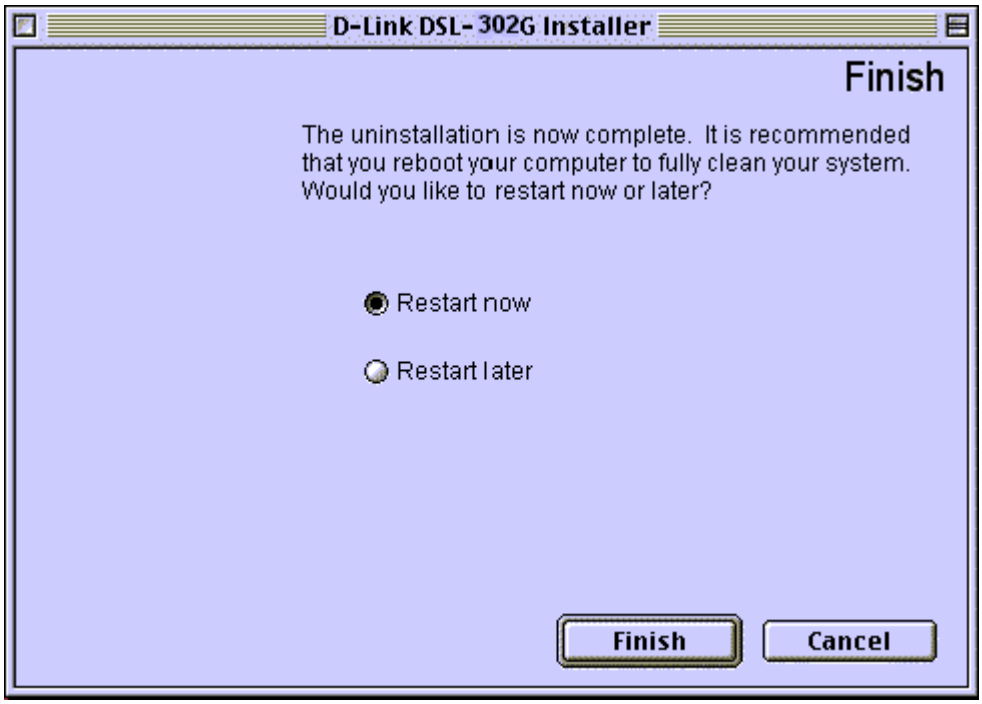
Driver and 'USB Modem' uninstall



5. Run the uninstaller application located at "/Applications/D-Link DSL-302G/Uninstall".


D-Link DSL-302G Installer
Uninstall
This program will uninstall the DSL-302 G driver from your computer. Are you sure you would like to continue?
Yes, remove the software from my computer.
No, cancel the uninstallation.
Next
Cancel

6. Select "Yes, remove the software from my computer." and click Next.
7. Unplug the USB cable from your DSL-302G.


D-Link DSL-302G Installer
Finish
The uninstallation is now complete. It is recommended that you reboot your computer to fully clean your system. Would you like to restart now or later?
Restart now
Restart later
Finish
Cancel

8. Select "Restart Now" and click "Finish". If you select "Restart later" please remember to do it later, the Uninstallation will not be completed until then.

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